

Catalog 211
2001

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What's New at Jameco?

The Catalog... For 28 years Jameco has been committed to making your shopping experience pleasant every time. Whether shopping on-line, using the catalog, talking to our order entry staff, or faxing your order, we want to make the process effortless. With this in mind we made the catalog more user friendly. We also integrated our catalog production to that of our website, providing you with a uniform presentation, regardless of the method you choose.

Product status...

Part No. in Red
Denotes a New Item in our Catalog.

Part Number	Product Number
163635	DCR2405F11
174861	DCR2405F12
174879	DCR2405F52

Part No. in Blue
Act Fast! Limited Quantities Available.

74LS00 Series

Part No.	Product No.	Pins
47001	74LS191	16
47010	74LS192★	16
47036	74LS193★	16

Items with a Star
Item also available through your local JIM-PAK® retailer.

Part No.	Product No.	Pins
48979	7400★	
49007	7401	14
49015	7402★	14
49031	7403	14

Product pricing...

Prices
Are in each, unless otherwise stated.

Pricing		
1	10	50
$1.95	$1.79	$1.59
1.95	1.79	1.59
1.49	1.29	1.19
1.39	1.19	1.09

OEM Pricing
Volume pricing is available.

Call for OEM Pricing

1-800-831-4242

Quantity
10-99 sell at $.032 ea.
100+ sell at $.02 ea.

10	100
$.032	$.02
.016	.012
.016	.012

w w w.jameco.com

Flexible Search...
by Part Number, Manufacturer's Product Number, Product Description, Parameter, etc...

Order Tracking...
Whether you placed your order via web, fax, or phone, insert your order number to track its status on-line.

Monthly Specials...
Monthly Specials come to you on items that interest you when you join our email notification program.

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- ★ **Value Pricing Commitment**
  Our commitment is backed by a competitor price match policy***
- ★ **Representantes que hablan Español**

* Applies to orders placed Monday through Friday and are subject to credit approval.
** See page 178 for details. *** Please supply printed material reference.

Jameco Electronics is a catalog distributor offering a comprehensive selection of electronic components and computer products. Jameco's entire inventory of more than 5,900 items is warehoused at its 50,000 square foot headquarters in Belmont, California. At Jameco Electronics, you receive a level of service, product selection, price and overall value unmatched in the industry.

Jameco, established in 1973, was first promoted with a 1/3 page advertisement in Radio Electronics (currently Poptronics). Overwhelming response led to the creation of a two-page, black and white catalog. Since then, the catalog has grown to a 184-page, full color publication. With more than twenty-eight years experience, Jameco has become a time-trusted partner of thousands of corporations, educational institutions, government agencies and hobbyists.

Contact Information

Call us directly Monday - Friday from 6:30am-5:00pm PST at 1-650-592-8097

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Are You Committed to Volume Purchases?

Whether you are a(an):

- Original Equipment Manufacturer
- Scholastic Institution
- Exporter
- Repair & Maintenance Organization
- Hobbyist
- Government Agencies

Jameco's Inside Sales Team has been assisting volume buyers for over 10 years.

1. Volume Pricing
   Beyond last column pricing
2. Samples
   To ensure our products meet your requirements
3. Special Orders
   Items not in our catalog
4. School Kits
   Customized kits

Ask your representative for more information on this added support.

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PRICES

Prices are effective as of 1-22-01 and expire 4-22-01. Prices and discounts are subject to change without notice.

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Intel ER8100 Router



- Maximum power consumption: 14 watts
- LED indicators for status, LAN, ISDN, and channels
- LAN Interface: 10Base-T or 100Base-T (RJ45)
- ISDN interface supports BRI (Basic Rate Interface)
- BRI or Basic Rate Interface provides two independent channels (B) channels which can run to separate destinations, and a signaling (D) channel
- Includes manual, CD-ROM, and power supply (5.1VDC @ 2.6A table-top type)
- Size: 9.5"L x 9.5"W x 1.7"H • Weight: 5.6 lbs.

Part No.	Product No.	Price
180195	ER8100	$449.95

Intel ER9200 Router



- Maximum power consumption: 25 watts
- LED indicators for system, WAN, and LAN
- PC Card (PCMCIA slot)
- LAN interface: 10Base-T (RJ45) and 10Base5 (AUI)
- WAN interface: X.21/V.11; V.24/V.28; V.35 or V.36
- Routing protocols: IP, NOVELL IPX RIP/SAP
- Forwarding ratios: 4,276 packets / second
- Filtering speed: LAN up to 14, 800 packets / second
- Supports frame relay and X.25
- Includes manual, RJ45 cable, CD-ROM (Device View 2.0 for Windows®)
- Size: 12.0"L x 9.2"W x 2.6"H • Weight: 9.3 lbs.

Part No.	Product No.	Price
180208	ER9200	$699.95

Intel ES550T Routing Switch



- High speed connectivity
- Simultaneous two-way communication between connected devices
- Plug and play
- Increased network throughput and performance
- (8) 10/100Mbps, non-blocking ports
- Two optional slots for modules
- Front panel LED shows switch, port, and traffic status
- Ports supports half and full duplex operation
- Port operates in a choice of switching modes: cut-through / fragment free / store and forward
- Simultaneous full wire speed switching on all ports
- Switch routing: IP and IPX protocols
- Spanning tree support on all ports
- Includes manual, console cable, power cord, and CD-ROM
- Size: 17.4"L x 13.0"W x 3.3"H • Weight: 19.9 lbs.

Part No.	Product No.	Price
180232	ES550T	$1795.95

Intel EE220TX12 Stackable Hub



- LED indicators for Collision / RPS / Bridged / Managed / Status / Power
- LED indicators on RJ45 ports for link and activity
- 12 ports (auto-sensing 10/100Mbps per port)
- Cascade connectors for stackable connections
- Bridges 10Mbps and 100Mbps segments
- Supports redundant power supply (RPS)
- Two expansion slots for optional modules
- Stackable up to 8 HUBS
- Includes manual and power cable
- Size: 17.2"L x 13.0"W x 3.3"H • Weight: 17.1 lbs.

Part No.	Product No.	Price
180291	EE220TX12	$899.95

BAKNOR 9.6 Watt 12VDC Wall Transformer (UK)



- Input voltage: 240VAC @ 50Hz
- Output voltage: 12VDC @ 800mA
- Input connector: 2-prong type connector for UK
- Output connector: 2.1mm x 5.5mm female center positive with 6' cord
- Color: black • CE/TUV approved
- Size: 3.18"H x 2.17"W x 2.18"D • Weight: 1.1 lbs.

Part No.	Product No.	1	10	50	100
181711	48D-12-800B	$6.95	$6.25	$5.59	$4.95

QUICKLINK Automatic Telephone

Ring Down Unit



179944

179936

- Applications: elevator and door entry phones; in-office and off-premise emergency hotlines; tie lines between phones, PABX and Key systems; CO line simulators for sales demonstrations; testing rings, answering, and signal path functions in telecom repairs, installation and production
- Ringing power: 70V @ 20Hz modified square wave
- Power input: 12VAC @ 700mA (maximum)
- Line feed type: two wire unbalanced
- Maximum loop resistance: 600Ω
- Termination: 4-40 screws
- **179944:** ringing cadence: 1 second on 1 second off
- **179936:** LED hook status indicator; ringing cadence: continuous / 1 second on 1 second off / 2 seconds on 2 seconds off / 2 seconds on 4 seconds off; additional power input: 20 to 28VDC@300mA maximum; RJ11 terminations
- Size: 4.2"L x 2.5"W x 0.5"H • Weight: 0.4 lbs.

Part No.	Description	1	10
179944	E002 (economy model)	$79.95	$69.95
179936	S002 (standard model)	99.95	89.95

DP Server Case



Back



Front

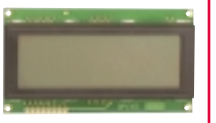
Front Panel
- 3 external 5.25" bays
- 2 slots for external devices
- 2 slots for cooling fans

Rear Panel
- 9 back panel brackets
- 3 slots for power supplies or external devices

Internal
- 2 slots for power supply located above motherboard
- Size: 17.1"L x 18.4"W x 19.2"H
- Weight: 40 lbs.

Part No.	Description	Price
181737	DP server case	$199.95

JAMECO LCD Serial Display



- Terminal style serial input
- Character display type
- 20 characters x 4 lines
- White EL backlight
- Low power 3V design
- 5 x 8 dot matrix
- Super twisted nematic display
- Gray display color mode
- Size: 3.5"L x 2.0"W x 0.3" Thick • Weight: 0.1 lbs.

Part No.	Description	1	10	25
181809	LCD module	$69.95	$62.95	$56.95

JAMECO Plastic Jar



- Ideal for storing small items such as nuts, bolts, screws, ICs, sockets, etc.
- Clear plastic jar with white top lid
- Size: 2.3"Dia. x 2.4"H
- Weight: 0.1 lbs.

Part No.	Description	1	10	100	1000
179952	Plastic jar	$.49	$.45	$.39	.29

Airpax Circuit Breakers

VDE Approved – Also Available



183484



183492

- Magnetic circuit breakers • 250 VAC; 50/60Hz
- Long delay • UL, CSA approved

183476/183484: Single pole **183492:** Two pole **183505:** Three pole

Part No.	Product No.	Amps	Size (W"xH"xD")	Wt.(lbs)	1	10	50
183476	UPL1-1-62-103	10A	0.75x2.5x2.5	0.2	$26.95	$24.95	$22.49
183484	UPL1-1-62-153	15A	0.75x2.5x2.5	0.2	26.95	24.95	22.49
183492	UPL11-1-62-203	20A	1.50x2.5x2.5	0.5	69.95	62.95	56.95
183505	UPL111-1-62-302	30A	2.25x2.5x2.5	0.7	109.95	99.95	89.95

OHMITE Resistors & Plate Choke



183724/183716



173708

Part No.	Product No.	Description	1	10	50
183724	95J5R0	5Ω power resistor; 5W	$2.39	$2.15	$1.89
183716	L50J50R	50Ω power resistor; 50W	6.39	5.75	5.25
183708	Z14	44µH RF plate choke 7-35MHz	6.95	6.25	5.59

OHMITE Rheostats & Accessories



183695



183687



183679

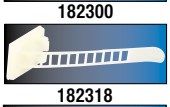
Part No.	Product No.	Description	1	10	50
183695	RHS1K0	1KΩ wirewound rheostat; 25W	$22.95	$20.49	$18.49
183687	5000	2.2" dia. circular dial (.38" dia. shaft)	1.75	1.49	1.25
183679	5150	¼" shaft finger grip knob; 1.5" dia.	7.95	7.25	6.49

JAMECO® Cable Clamps

- Material: UL approved nylon 66, 94V-2
- **10 piece minimum**


182941


182300


182318


182334

Part No.	Product No.	Description	10	100	1000
182941	0505HC-101S	Tie mount cable .75"D; 4-way self adhesive	$.07	$.06	$.05
182300	0510HC-2	Tie mount cable .5"D; #6 screw	.04	.035	.03
182318	0519ATC-17	Tie mount cable .7"D ADJ; 2-way #6 screw	.39	.35	.32
182376	0519ATC-22	Tie mount cable .9"D ADJ; 2-way #6 screw	.44	.39	.35
182334	0520FC-1	Tie mount cable .1"D; self adhesive	.07	.06	.05
182342	0520FC-2	Tie mount cable .2"D; self adhesive	.08	.07	.06

JAMECO® Strain Relief Bushings

- Material: UL approved nylon 66, 94V-2
- Color: black
- Series 0705SR tool: P/N 73470 (right)
- **10 piece minimum**


182414


182369

Part No.	Product No.	Description	10	100	1000
182385	0705SR-F51	Flat, SPT3, S	$.07	$.06	$.05
182393	0705SR-F53	Flat, SPT3, L	.07	.06	.05
182406	0705SR-F41	Flat, SPT2, S	.04	.035	.03
182414	0705SR-F42LF	Flat, SPT2, R	.19	.17	.15
182422	0705SR-F42L	Flat, SPT 1/2, R	.15	.13	.11
182351	0705SR-5R2	Round, SVI/SVT	.07	.06	.05
182369	0705SR-6R1	Round, SJ/SJT; 16 AWG	.07	.06	.05
182377	0705SR-6P1	Round, SJC; 18 AWG	.07	.06	.05

JAMECO® Wire Connectors

- Material: UL approved white nylon 66, 94V2
- Strip wire before application
- Series 0801 requires crimping tool, others are twist on type
- Quick and secures method to splice control wires
- * Series 0801: UL/CSA approved
- **10 piece minimum**

182457

182481


182511


182553


182570

Part No.	Product No.	Description	Material	Color	10	100	1000
182431	0801CE-1*	Crimp, 22-16 AWG	Nylon 66, 94-2	Natural	$.04	$.035	$.03
182449	0801CE-2*	Crimp, 16-14 AWG	Nylon 66, 94-2	Natural	.04	.035	.03
182457	0801CE-5*	Crimp, 12-10 AWG	Nylon 66, 94-2	Natural	.08	.07	.06
182465	0801CE-8*	Crimp, 8 AWG	Nylon 66, 94-2	Natural	.10	.09	.08
182473	0805SW-1	Wire-nut, 18 AWG x 2	UREA Plastic	Yellow	.04	.035	.03
182481	0805SW-2	Wire-nut, 16 AWG x 3	UREA Plastic	Ivory	.04	.035	.03
182490	0805SW-3	Wire-nut, 16 AWG x 3	UREA Plastic	Yellow	.04	.035	.03
182502	0805SW-71B	Wire-nut, 16 AWG	PVC w/ metal spring	Grey	.04	.035	.03
182511	0805SW-72B	Wire-nut, 16 AWG	PVC w/ metal spring	Blue	.04	.035	.03
182529	0805SW-73B	Wire-nut, 16 AWG	PVC w/ metal spring	Orange	.04	.035	.03
182537	0805SW-74B	Wire-nut, 14 AWG	PVC w/ metal spring	Yellow	.08	.07	.06
182545	0805SW-76B	Wire-nut, 12 AWG	PVC w/ metal spring	Red	.10	.09	.08
182553	0809SW-Y11	Wire w/nut, 12 AWG	Metal spring w/ wing	Yellow	.10	.09	.08
182561	0809SW-Y12	Wire w/nut, 10 AWG	Metal spring w/ wing	Red	.12	.11	.10
182570	0810KW-1	Wire IDC, 14 AWG	Nylon 66, 94-2	Blue	.10	.09	.08
140724	0810KW-3	Wire IDC, 18-14 AWG	PE - metal inside	Blue	.11	.07	.05
140716	0810KW-4	Wire IDC, 22-18 AWG	PE - metal inside	Red	.11	.07	.05

JAMECO® Stand Off Twist & Saddle Fasteners

- Material: UL approved natural nylon 66, 94V2
- For directing and gathering cables at low cost
- 1202 Series: locks into 4.8mm hole with fingertip pressure
- Effective cable securing method
- Easy to install
- **10 piece minimum**


1205 Series


182588

Part No.	Product No.	Description	10	100	1000
182625	1205ST-0560	Twist tie .2" W	$.08	$.07	$.06
182633	1205ST-1112	Twist tie .4" W	.08	.07	.06
182641	1205ST-1247	Twist tie .5" W	.08	.07	.06
182588	1202KWS-0N	Lock, Sad. .1" W	.08	.07	.06
182596	1202KWS-1N	Lock, Sad. .3" W	.08	.07	.06
182609	1202KWS-2N	Lock, Sad. .7" W	.08	.07	.06
182617	1202KWS-3N	Lock, Sad. 1" W	.10	.09	.08

Self Adhesive Wire Marker

- Stick to wires for permanent identification
- Cloth tape label numbered 0-9
- Used extensively for cable diameter after or before terminal attachment



Part No.	Product No.	1	10
182262	0215WMB-1	$7.99	$6.99

Cable Tie Tools

- 2.5 - 5mm W
- Economical pocket type
- Twist to cut surplus tie end


73402

Part No.	Product No.	1	10	100
73402	0302TG-6	$10.95	$9.95	$8.95
182297	0302TG-7	19.95	17.95	15.95
182271	0302TG-3	49.95	45.95	39.95

Bushing Assembly Tool

- Stainless
- For use with series 0705SR strain relief bushings (left)



Part No.	Product No.	1	10	100
73470	0705A-KT1	$29.95	$26.95	$23.95

Cable Markers

- UL approved natural nylon
- **182705:** Size: 1.5"L x .75"W
- **182713:** Size: 2.5"L x 1.76"W
- **10 piece minimum**



Part No.	Product No.	10	100	1000
182705	0210MT-3819	$.10	$.09	$.08
182713	0210MT-6344	.20	.18	.16

PVC Heat Shrink Tubing

- 2:1 uniform shrink ratio
- Color: black
- Shrink temp: 125˚C
- Sold in 5, 10 and 100 foot increments
- UL/CSA approved
- See page 117 for heat guns


182748


182772

Part No.	Prod No.	Dia.(before)	5	10	100
184721	0927F32-3	.12"	$3.25	$5.50	$39.00
182730	0927F32-4	.16"	3.95	6.50	55.00
182748	0927F32-5	.20"	4.45	7.50	59.00
182756	0927F32-6	.24"	4.95	8.50	69.00
182764	0927F32-8	.31"	5.95	9.90	85.00
182772	0927F32-11	.43"	7.95	13.50	115.00
182781	0927F32-15	.59"	10.95	18.50	155.00

JAMECO® Exterior Cable Ties

- Contain carbonate for greater ultraviolet resistance
- Material: UL approved natural nylon 66, 94V2
- Minimum tensile strength: 18 lbs.
- Maximum bundle diameter: 30mm - 55mm
- **182676/182684:** UV Weather Resistant
- **10 piece minimum**

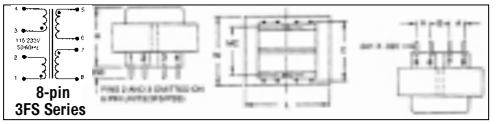

0301 Series


0312 Series

Part No.	Product No.	Size ("L x "W)	10	100	1000
182650	0301CV-140S	5.5 x .13	$.059	$.049	$.039
182668	0301CV-200S	8.0 x .13	.059	.049	.039
182676	0301CV-120W	4.75 x .13	.069	.059	.049
182684	0301CV-200W	8.0 x .18	.10	.09	.08
182692	0312MCV-200S	8.0 x .10	.10	.09	.08

Tamura Split-Bobbin & MicroTran Audio Transformers

- Input voltage: 115/230




183767

Split-Bobbin Transformers

- Primary: 115/230 @ 50/60Hz

Part Number	Product Number	Signal Equivalent	VA Cap	Individual Output	Parallel Output	Series Output	Dimensions (L" x W" x H")	Weight (lbs.)	Pricing 1	Pricing 10
183732	3FS-312	ST3-12	2.4	6.3 @ 0.4	6.3 @ 0.2	12.6 @ 0.2	1.4 x 1.2 x 1.0	0.2	$6.95	$6.49
183741	3FD416	DST4-16	6.0	8.0 @ 0.8	8.0 @ 0.4	16.0 @ 0.4	1.7 x 1.4 x 1.4	0.4	8.29	7.49
183759	3FD420	DST4-20	6.0	10.0 @ 0.6	10.0 @ 0.3	20.0 @ 0.3	1.7 x 1.4 x 1.4	0.4	8.29	7.49

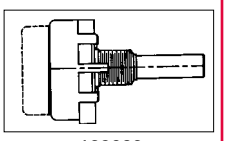
MicroTran Voice/Data Coupling Transformer

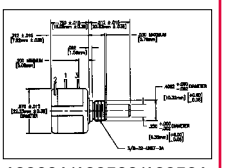
Part Number	Product Number	Primary Impedance	Secondary Impedance	Primary Resistance	Secondary Resistance	Size L" x W" x H"	Wt. (lbs.)	Pricing 1	Pricing 10	Pricing 100
183767	T1104	600Ω	600Ω	66Ω	102Ω	0.4 x 0.6 x 0.5	0.2	$12.95	$11.49	$9.95

Clarostat Potentiometers

Series 53C1:

- Material: Plastic conductive
- Dielectric strength: 1000VAC for 60 seconds @ ATM pressure
- Resistance tolerance: up to 1MΩ ±10% (linear); 500KΩ ± 10% (taper)
- Power rating: 2W continuous
- Working voltage: 500VDC across terminals


183628


183601/183599/183581

Series 73JA:

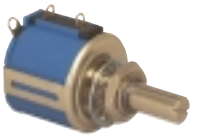
- Material: metal shaft/bushing
- Dielectric strength: 1000VAC for 60 seconds @ ATM
- Wirewound; 10-turn • Industrial version
- Working voltage: 500V max.
- Resistance tolerance: ±5% • Pwr. rating: 2W @ 70˚C

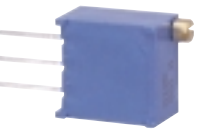
Part No.	Product No.	Ohms	1	10	50
183628	53C1-5K	5K	$12.79	$11.49	$10.49
183601	73JA-1K	1K	13.79	12.49	11.49
183599	73JA-5K	5K	13.79	12.49	11.49
183581	73JA-10K	10K	13.79	12.49	11.49

Bourns Potentiometers

- Resistance tolerance: ±10%
- Insulation resistance: (500VDC) 1,000MΩ min.

Series 3540: • 10-turn; wirewound • Absolute minimum resistance: 1Ω or 0.1% max.
Series 3299: • 25-turn; cermet type • Absolute minimum resistance: 2Ω or 1% max.


183530

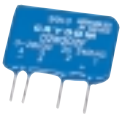

183556

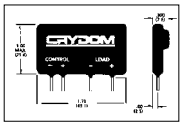
Part No.	Product No.	Ohms	Load Life	1	10	50
183513	3540S-1-102	1K	1,000 hours, 2W	$13.49	$11.95	$10.95
183530	3540S-1-202	2K	1,000 hours, 2W	13.49	11.95	10.95
183548	3540S-1-502	5K	1,000 hours, 2W	13.49	11.95	10.95
183521	3540S-1-103	10K	1,000 hours, 2W	13.49	11.95	10.95
183556	3299W-102	1K	200 cycles	2.95	2.75	2.49
183564	3299W-103	10K	200 cycles	2.95	2.75	2.49
183572	3299W-104	100K	200 cycles	2.95	2.75	2.49

CRYDOM Solid State Relays

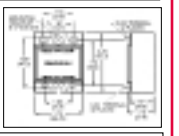
- Type DC/AC

184410: Mosfet Type
184604: Triac Type SIP **184428:** SCR Type SIP


127790 (Fig. 1)



184428 (Fig. 2)

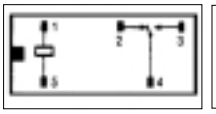

184410 (Fig. 3)

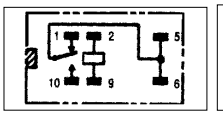
Part Number	Product Number	Control Voltage	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	Size (L" x W" x H")	Pricing 1	Pricing 10	Pricing 50
127790	D2W202F	3.0 to 28VDC	SPST	240VDC	2A	4	1	solder lead	—	1.7 x 0.4 x 1.3	$7.95	$7.19	$6.49
184428	CX240D5	15 to 32VDC	SPST	280VAC	5A	4	2	solder lead	—	1.7 x 0.3 x 1.0	9.95	8.95	7.95
184410	D1D40	3.5 to 28VDC	SPST	100VDC	40A	4	3	screw term	—	1.9 x 1.8 x 1.1	64.95	58.49	52.95

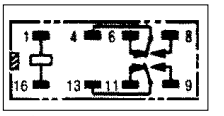
OMRON Power PCB and Low Signal Relays

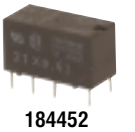
G5V1: • Ultra-miniature, highly sensitive SPDT relay for low signal circuits
- 150mV nominal power consumption with 96mW pick-up power
- Ideal for use in telecommunications • Fully sealed construction

G5V2: • Low signal reLAy suitable for use in computer peripherals, telecommunications and security equipment
- Capable of swiching loads up to 2A • Fully sealed construction


G2R Type (Fig. 1)


G5V1 Type (Fig. 2)

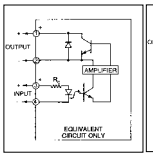

G5V2 Type (Fig. 3)

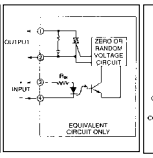

184452

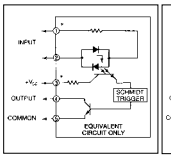
Part Number	Product Number	Contact Form	Coil Voltage	Coil Resistance	Contact Voltage	Contact Current	Relay Type	Pin	Fig.	Size (L" x W" x H")	Termination	Pricing 1	Pricing 10	Pricing 50
184436	G2R1SDC12	SPDT	12	275	115VAC/24VDC	10A	Pwr PCB	5	1	1.1 x 0.5 x 1.1	PC Mount	$4.95	$4.49	$3.95
184444	G2R1SDC24	SPDT	24	1.1K	115VAC/24VDC	10A	Pwr PCB	5	1	1.1 x 0.5 x 1.1	PC Mount	4.95	4.49	3.95
184461	G5V1DC12	SPDT	12	960	115VAC/24VDC	1/0.5A	Low signal	5	2	0.5 x 0.3 x 0.4	PC Mount	2.95	2.65	2.39
184452	G5V2DC24	DPDT	24	1.152K	115VAC/24VDC	2/0.5A	Low signal	8	3	0.8 x 0.4 x 0.5	PC Mount	2.95	2.65	2.39

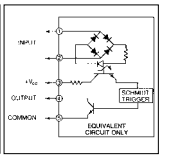
GORDOS Type I/O Modules

- Industry standard package and pinout
- Color coded by function
- 4,000Vrms optical isolation
- Continuous duty
- Capacitance: 8pF typical (input/output)
- High immunity to false operation


ODC


OAC


IDC


IAC

Part No.	Prod. No.	Description	Input Voltage	Output Voltage	1	10	50
184541	ODC-5	DC output (red)	5VDC	3 to 60VDC @ 3A	$9.95	$8.95	$7.95
184559	ODC-24	DC output (red)	24VDC	3 to 60VDC @ 3A	9.95	8.95	7.95
184524	OAC-5	AC output (red)	5VDC	120VAC @ 3A	9.95	8.95	7.95
184532	OAC-24	AC output (red)	24VDC	120VAC @ 3A	11.95	10.75	9.75
184583	IDC-24	DC input (white)	3.3 to 32VDC	5VDC	9.95	8.95	7.95
184591	IDC-24	DC input (white)	3.3 to 32VDC	24VDC	10.95	9.95	8.95
184567	IAC-5	AC input (yellow)	120VAC/VDC	5VDC	8.95	7.95	7.19
184575	IAC-24	AC input (yellow)	120VAC/VDC	24VDC	9.95	8.95	7.95

Potter & Brumfield Relay Sockets

184479: 27E121
- SMT screw terminal socket for KUEP/KUGP/KUMP/KUP

184487/184495: 27E122/27E123
- SMT screw terminal for KAP/KRP/KRPA


184479

184516: 27E891
- Screw terminal socket for KUEP/KUGP/KUMP/KUP
- Din rail • Snap mount

184508: 27E893
- Screw terminal socket for KAP/KRP/KRPA
- Din rail • Snap mount


184487

Part No.	Product No.	Screw Term	1	10	50
184479	27E121	9	$8.49	$7.59	$6.79
184487	27E122	8	4.95	4.49	3.95
184495	27E123	11	7.49	6.75	5.95
184516	27E891	8	6.49	5.79	5.25
184508	27E893	9	9.95	8.95	7.95

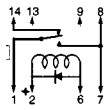
Magnecraft Type Reed Relays

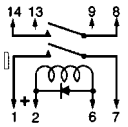
- Coil voltage: 5VDC

183935: diode reversed

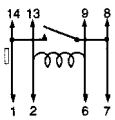
183943/183960/183978: diode

183935

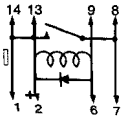




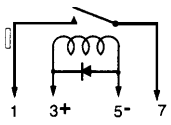
183943



183951



183960



183978

Part Number	Product Number	Magnecraft Cross	Coil Resistance	Contact Form	Contact Voltage	Contact Current	Pin	Jameco Socket	Pkg.	Pricing 1	10	50
183935	R1C5DR	W172DIP5	200	SPDT	100	.25A	8	37161	DIP	$8.95	$7.95	$6.95
183943	R2A5D	W171DIP25	200	DPST-NO	200	.25A	8	37161	DIP	7.95	6.95	6.25
183951	RP1A5	W107DIP1	500	SPST-NO	200	.5A	8	37161	DIP	3.95	3.55	3.19
183960	RP1A5D	W107DIP5	500	SPST-NO	200	.5A	8	37161	DIP	4.49	3.95	3.55
183978	S1A5D	W117SIP6	500	SPST-NO	200	.5A	4	—	SIP	4.49	3.95	3.55

Potter & Brumfield Type Power Relays

Termination: • Quick connect (Qck conn)
• Solder/quick connect (S/qck conn) • Solder/plug-in (S/plug-in)
• Plug-in/quick connect (P/qck conn) • Plug-in/solder (P/solder)


Fig. 1


Fig. 2


Fig. 3


Fig. 4


Fig.5

Part Number	Product Number	P & B Cross Ref.	Fig.	Coil Voltage	Coil Resistance	Contact Form	Contact Voltage	Contact Current	Term	Type	Termination	Pricing 1	10	50
183775	GH2C24A	PRD11AG024	1	24VAC	12	DPDT	240VAC/28VDC	30A	8	Power	Screw term	$29.95	$26.95	$23.95
183783	GH2C120A	PRD11AG0120	1	120VAC	290	DPDT	240VAC/28VDC	30A	8	Power	Screw term	29.95	26.95	23.95
183791	GH2C12D	PRD11DG012	1	12VDC	71	DPDT	240VAC/28VDC	30A	8	Power	Screw term	24.95	22.49	19.95
183804	GH2C24D	PRD11DG024	1	24VDC	288	DPDT	240VAC/28VDC	30/25A	8	Power	Screw term	24.95	22.49	19.95
183812	GTS1C24A	KUHP5A5124	2	24VAC	72	SPDT	240VAC/28VDC	30/25A	5	Power	Qck conn	13.95	12.49	11.25
183821	GTS1C120A	KUHP5A51120	2	120VAC	1700	SPDT	240VAC/28VDC	30/25A	5	Power	Qck conn	13.95	12.49	11.25
183839	GTS1C12D	KUHP5D5112	2	12VDC	120	SPDT	240VAC/28VDC	30/25A	5	Power	Qck conn	13.95	12.49	11.25
183847	GTS1C24D	KUHP5D5124	2	24VDC	472	SPDT	240VAC/28VDC	30/25A	5	Power	Qck conn	13.95	12.49	11.25
183855	GTS2C24A	KUHP11A5124	2	24VAC	72	DPDT	240VAC/28VDC	20A	8	Power	Qck conn	14.95	13.49	11.95
183863	GTS2C120A	KUHP11A51120	2	120VAC	1700	DPDT	240VAC/28VDC	20A	8	Power	Qck conn	14.95	13.49	11.95
183871	GTS2C12D	KUHP11D5112	2	12VDC	120	DPDT	240VAC/28VDC	20A	8	Power	Qck conn	14.95	13.49	11.95
183880	GTS2C24D	KUHP11D5124	2	24VDC	472	DPDT	240VAC/28VDC	20A	8	Power	Qck conn	14.95	13.49	11.95
183898	GMH4PDT24AF	KHS17A1224	3	24VAC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	44.95	39.95	35.95
183901	GMH4PDT120AF	KHS17A12120	3	120VAC	3900	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	44.95	39.95	35.95
183919	GMH4PDT12DF	KHS17D1212	3	12VDC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	41.95	37.95	33.95
183927	GMH4PDT24DF	KHS17D1224	3	24VDC	650	4PDT	120VAC/28VDC	5A	12	Gen pwr	Plug-in	41.95	37.95	33.95
183986	GLDPDT12A	K10P11A1512	4	12VAC	43	DPDT	120VAC/30VDC	15A	8	Power	S/plug-in	8.49	7.69	6.89
183994	GLDPDT120A	K10P11A15120	4	120VAC	3900	DPDT	120VAC/30VDC	15A	8	Power	S/plug-in	8.95	7.95	7.19
184006	GLDPDT12D	K10P11D1512	4	12VDC	160	DPDT	120VAC/30VDC	15A	8	Power	S/plug-in	8.49	7.69	6.89
184014	GLDPDT24D	K10P11D1524	4	24VDC	650	DPDT	120VAC/30VDC	15A	8	Power	S/plug-in	8.49	7.69	6.89
184022	GLPDPDT12D	K10P11D5512	4	12VDC	160	DPDT	120VAC/30VDC	15A	8	Power	PCB mount	8.49	7.69	6.89
184031	GLPDPDT24D	K10P11D5524	4	24VDC	650	DPDT	120VAC/30VDC	15A	8	Power	PCB mount	8.49	7.69	6.89
184049	GLSDPDT24A	K10P11AT524	4	24VAC	160	DPDT	120VAC/30VDC	15A	8	Flange	S/qck conn	8.95	7.95	7.19
184057	GLSDPDT120A	K10P11AT5120	4	120VAC	3900	DPDT	120VAC/30VDC	15A	8	Flange	S/qck conn	8.95	7.95	7.19
184065	GLSDPDT12D	K10P11DT512	4	12VDC	160	DPDT	120VAC/30VDC	15A	8	Flange	S/qck conn	8.95	7.95	7.19
184073	GLSDPDT24D	K10P11DT524	4	24VDC	650	DPDT	120VAC/30VDC	15A	8	Flange	S/qck conn	8.95	7.95	7.19
184081	GVSPDT120A	KRPA5AG120	4	120VAC	2250	SPDT	230VAC/28VDC	10A	5	Power	Plug-in	14.95	13.49	11.95
184090	GVDPDT24A	KRPA11AG24	4	24VAC	85	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	16.95	14.95	13.49
184102	GVDPDT120A	KRPA11AG120	4	120VAC	2250	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	16.95	14.95	13.49
184111	GVDPDT12D	KRPA11DG120	4	12VDC	120	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	16.95	14.95	13.49
184129	GVDPDT24D	KRPA11DG24	4	24VDC	472	DPDT	230VAC/28VDC	10A	8	Octal	Plug-in	16.95	14.95	13.49
184137	GVTPDT24A	KRPA14AG24	4	24VAC	85	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	19.95	17.95	15.95
184145	GVTPDT120A	KRPA14AG120	4	120VAC	2250	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	19.95	17.95	15.95
184153	GVTPDT12D	KRPA14DG12	4	12VDC	120	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	19.95	17.95	15.95
184161	GVTPDT24D	KRPA14DG24	4	24VDC	472	3PDT	230VAC/28VDC	10A	11	Octal	Plug-in	19.95	17.95	15.95
184170	GQDTDT24A	KUP11A1524	5	24VAC	85	DPDT	240VAC/28VDC	10A	8	Power	P/qck conn	12.95	11.49	9.95
184188	GQDPDT120A	KUP11A5120	5	120VAC	2250	DPDT	240VAC/28VDC	10A	8	Power	P/qck conn	12.95	11.49	9.95
184196	GQDPDT12D	KUP11D1512	5	12VDC	9110	DPDT	240VAC/28VDC	10A	8	Power	P/qck conn	11.95	10.49	9.49
184233	GQDPDT24D	KUP11D1524	5	24VDC	472	DPDT	240VAC/28VDC	10A	8	Power	P/qck conn	11.95	10.49	9.49
184217	GQSDPDT120A	KUP11AT120	5	120VAC	2250	DPDT	240VAC/28VDC	10A	8	Power	Qck conn	12.95	11.49	9.95
184225	GQSDPDT12D	KUP11DT12	5	12VDC	9110	DPDT	240VAC/28VDC	10A	8	Power	Qck conn	11.95	10.49	9.49
184209	GQSDPDT24D	KUP11DT24	5	24VDC	472	DPDT	240VAC/28VDC	10A	8	Power	Qck conn	11.95	10.49	9.49
184241	GQTPDT24A	KUP14A1524	5	24VAC	85	3PDT	240VAC/28VDC	10A	10	Power	P/qck conn	13.95	12.49	11.25
184250	GQTPDT120A	KUP14A15120	5	120VAC	2250	3PDT	240VAC/28VDC	10A	10	Power	P/qck conn	14.95	13.49	11.95
184268	GQTPDT12D	KUP14D1512	5	12VDC	9110	3PDT	240VAC/28VDC	10A	10	Power	P/qck conn	13.95	12.49	11.25
184276	GQTPDT24D	KUP14D1524	5	24VDC	472	3PDT	240VAC/28VDC	10A	10	Power	P/qck conn	13.95	12.49	11.25
184284	GQSTPDT24A	KUP14A5524	5	24VAC	85	3PDT	240VAC/28VDC	10A	10	Power	Qck conn	14.95	13.49	11.95
184292	GQSTPDT120A	KUP14A55120	5	120VAC	2250	3PDT	240VAC/28VDC	10A	10	Power	Qck conn	15.95	14.49	12.95
184305	GQSTPDT12D	KUP14D5512	5	12VDC	9110	3PDT	240VAC/28VDC	10A	10	Power	Qck conn	13.95	12.49	11.25
184313	GQSTPDT24D	KUP14D5524	5	24VDC	472	3PDT	240VAC/28VDC	10A	10	Power	Qck conn	13.95	12.49	11.25
184321	GM4PDT24AF	KHAU17A1224	3	24VAC	160	4PDT	220VAC/24VDC	5A	12	Gen pwr	P/solder	7.29	6.59	5.95
183038	GM4PDT120AF	KHAU17A12120	3	120VAC	3900	4PDT	220VAC/24VDC	5A	12	Gen pwr	P/solder	7.29	6.59	5.95
184330	GM4PDT6DF	KHAU17D126	3	6VDC	40	4PDT	220VAC/24VDC	5A	12	Gen pwr	P/solder	7.29	6.59	5.95
183011	GM4PDT12DF	KHAU17D1212	3	12VDC	160	4PDT	220VAC/24VDC	5A	12	Gen pwr	P/solder	7.29	6.59	5.95
184348	GM4PDT24DF	KHAU17D1224	3	24VDC	650	4PDT	220VAC/24VDC	5A	12	Gen pwr	P/solder	7.29	6.59	5.95
184356	GMP4PDT12DF	KHAE17D1212	3	12VDC	160	4PDT	220VAC/24VDC	5A	12	Gen pwr	PCB mount	7.29	6.59	5.95
184364	GMP4PDT24DF	KHAE17D1224	3	24VDC	650	4PDT	220VAC/24VDC	5A	12	Gen pwr	PCB mount	7.29	6.59	5.95
184372	GMS4PDT24AF	—	3	24VAC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Qck conn	7.29	6.59	5.95
184381	GMS4PDT120AF	—	3	120VAC	3900	4PDT	120VAC/28VDC	5A	12	Gen pwr	Qck conn	7.29	6.59	5.95
184399	GMS4PDT6DF	—	3	6VDC	40	4PDT	120VAC/28VDC	5A	12	Gen pwr	Qck conn	7.29	6.59	5.95
183020	GMS4PDT12DF	—	3	12VDC	160	4PDT	120VAC/28VDC	5A	12	Gen pwr	Qck conn	7.29	6.59	5.95
184401	GMS4PDT24DF	—	3	24VDC	650	4PDT	120VAC/28VDC	5A	12	Gen pwr	Qck conn	7.29	6.59	5.95

We can special order any ICs – 100 piece minimum

We carry major manufacturers – call for pricing on quantities over 500.

7400 Series

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10	100
48979	7400★	14	Quad 2-input NAND gate	$.59	$.49	$.45
49007	7401	14	Quad 2-input NAND gate (O.C.)	.49	.45	.39
49015	7402★	14	Quad 2-input NOR gate	.59	.49	.45
49040	7404★	14	Hex inverter (2392102)	.59	.49	.45
49074	7405	14	Hex inverter (O.C.)	.29	.25	.22
49091	7406★	14	Hex inverter buffer/driver (O.C.)	.45	.39	.35
49120	7407★	14	Hex buffer/driver (O.C.)	.55	.49	.45
49146	7408★	14	Quad 2-input AND gate	.59	.49	.45
49189	7410★	14	Triple 3-input NAND gate	.25	.22	.15
49269	7411	14	Triple 3-input AND gate	2.95	2.75	2.49
49402	7413	14	Dual 4-input NAND gate Schmitt trigger	.25	.22	.19
49437	7414★	14	Hex inverter Schmitt trigger	.45	.39	.35
49630	7416	14	Hex inverter buffer/driver (O.C.)	.29	.25	.12
49728	7417	14	Hex buffer/driver (O.C. hi-voltage)	.35	.29	.25
50008	7420	14	Dual 4-input NAND gate	.49	.45	.39
50024	7421	14	Dual 4-input AND gate	2.95	2.75	2.49
50083	7425	14	Dual 4-input NOR gate with strobe	1.09	.99	.89
50139	7427	14	Triple 3-input NOR gate	.39	.35	.29
50198	7428	14	Quad 2-input NOR buffer	.59	.49	.45
50227	7430	14	8-input NAND gate	.25	.22	.12
50235	7432★	14	Quad 2-input OR gate	.59	.49	.45
50315	7438	14	Quad 2-input NAND buffer (O.C.)	.35	.29	.25
50358	7440	14	Dual 4-input NAND buffer	.25	.22	.15
50374	7442	16	BCD-to-decimal decoder	.89	.79	.69
50403	7445	16	BCD-to-decimal decoder/driver (30V)	.99	.89	.79
50411	7446	16	BCD-to-7 segment decoder/driver (30V)	1.49	1.39	1.29
50420	7447★	16	BCD-to-7 segment decoder/driver (15V)	1.09	.99	.89
50518	7470	14	Edge-triggered JK flip-flop	.49	.45	.35
50526	7472	14	AND gated JK master/slave flip-flop	.99	.89	.59
50534	7473★	14	Dual JK flip-flop with clear	.99	.89	.79
50551	7474★	14	Dual D flip-flop	.45	.39	.29
50577	7475	16	4-bit bi-stable latch	2.95	2.75	2.49
50593	7476★	16	Dual JK flip-flop with preset and clear	1.19	1.09	.99
50614	7479	14	Dual D flip-flop	1.95	1.75	1.49
50631	7483★	16	4-bit binary full adder	.89	.79	.69
50657	7485	16	4-bit magnitude comp.	.45	.39	.29
50665	7486★	14	Quad EXCLUSIVE-OR gate	.79	.69	.59
50681	7489	16	64-bit RAM P 50ns (3101)	2.95	2.75	2.49
50690	7490★	14	Decade counter	.89	.79	.69
50737	7492	14	Divide-by-12 counter	1.19	1.09	.89
50745	7493★	14	4-bit binary counter	1.29	1.19	1.09
50770	7495	14	4-bit parallel-access shift register (K155N)	.69	.59	.39
50788	7496	16	5-bit parallel-in, parallel-out shift register	.59	.49	.39
50796	7497	16	Synch. 6-bit binary rate multipliers	1.39	1.29	1.19
49234	74107	14	Dual JK flip-flop with clear	.25	.19	.12
49251	74109	16	Dual positive edge triggered JK flip-flop	.89	.79	.49
49293	74116	24	Dual 4-bit latches with clear (9308)	.89	.79	.69
49322	74121★	14	Monostable multivibrator	.99	.89	.79
49349	74122	14	Retriggerable mono. multivibrator with clear	.89	.79	.59
49357	74123	16	Dual retriggerable mono. multivibrator	.99	.89	.79
49373	74125	14	Quad bus buffer tri-state (DM8093N)	.99	.89	.79
49381	74126	14	Quad bus buffer tri-state (DM8094N)	.79	.69	.59

7400 Series (Continued)

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10	100
49411	74132	14	Quad 2-input NAND Schmitt trigger	$.69	$.59	$.35
49496	74148	16	8 to 3 line octal priority encoder	.89	.79	.69
49509	74150	24	16 to 1 line multiplexer	1.95	1.75	1.55
49525	74151	16	8-input multiplexer	.29	.25	.15
49550	74153	16	Dual 4/1 data selector/multiplexer	.29	.25	.15
49568	74154★	24	4 to16 line decoder/demultiplexer (9311)	2.25	1.95	1.75
49584	74155	16	Dual 2/4 demultiplexer	.29	.25	.15
49605	74157	16	Quad 2/1 data selector (9322)	.35	.29	.19
49648	74160	16	Decade counter with asynch. clear	.25	.19	.12
49664	74161	16	Synchronous 4-bit counter (9316)	.35	.29	.19
49672	74163	16	Synchronous 4-bit counter	.39	.35	.12
49681	74164	14	8-bit serial shift register	.35	.29	.25
49699	74165	16	8-bit serial shift register, parallel load	.69	.59	.39
49779	74174	16	Hex D-type flip-flop with clear	.29	.25	.12
49795	74175	16	Quad D-type flip-flop with clear	.29	.25	.12
49824	74179	16	4-bit parallel-access shift register	.39	.29	.10
49832	74180	14	9-bit odd/even parity generator/checker	.79	.69	.35
49841	74181	24	Arithmetic logic unit/function generator	1.95	1.75	1.55
49883	74189	16	64-bit RAM tri-state (DM8599N)	2.95	2.75	2.49
49891	74190	16	Up/down decade counter	3.95	3.59	3.25
49904	74191	16	Binary up/down counter	.99	.89	.79
49912	74192★	16	Decade up/down counter with clear	2.95	2.75	2.49
49939	74193★	16	Binary up/down counter with clear	1.39	1.19	1.09
49955	74194	16	4-bit bi-directional shift register	1.39	1.19	1.09
49963	74195	16	4-bit parallel-access shift register	.29	.25	.15
50041	74221	16	Dual mono. multiv. Schmitt trigger	.35	.29	.15
50104	74259	16	8-bit addressable latch (9334)	.35	.29	.19
50171	74279	16	Quad set-reset latch	.29	.25	.22
50286	74367	16	Hex buffer tri-state (DM8097N)	.19	.15	.10
88225	SDLD001A	—	Texas Instruments TTL Data Book	34.95	31.49	29.95

Part No.	Description	See page 22 for details	1	10
84953	360 pc. 7400 series IC cabinet kit	$160 Value	$129.95	$116.95

74C00 Series

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10
44222	74C00	14	Quad 2-input NAND gate	$.89	$.79
63538	74C02	14	Quad 2-input NOR gate	.39	.35
44231	74C04	14	Hex inverter (CD4069)	.39	.35
44257	74C14	14	Hex inverter Schmitt trigger (CD40106)	.39	.35
44425	74C48	16	BCD to 7-segment decoder/driver	2.49	2.25
44441	74C74	14	Dual D flip-flop	.99	.89
44329	74C174	16	Hex flip-flop (CD40174/MC14174BPC)	.49	.29
44345	74C193	16	Binary up/down counter w/ clear (40193)	1.49	1.29
44361	74C221	16	Dual monostable multivibrator	3.95	3.59
13469	74C367	16	Hex buffer tri-state (80C97/CD4503)	.49	.45
44396	74C373	20	Octal D-type flip-flop with clear tri-state	1.75	1.55
44409	74C374	20	Octal D flip-flop tri-state (INS82C06N)	1.49	1.25
44564	74C922	18	16-key keyboard encoder (INS8245N)	6.95	6.25
44572	74C923	20	20-key keyboard encoder (INS8246N)	6.95	6.25
44581	74C925	16	4-digit CTR with MUX D segment driver	6.95	5.95
44599	74C926	18	4-digit CTR with MUX D segment driver	6.95	5.95

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74LS00 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
46252	74LS00★	14	Quad 2-input NAND gate	$.25	$.19	$.15
46287	74LS02★	14	Quad 2-input NOR gate	.25	.19	.17
46308	74LS03	14	Quad 2-input NAND gate (O.C.)	.25	.19	.17
46316	74LS04★	14	Hex inverter	.25	.19	.17
46341	74LS05	14	Hex inverter (O.C.)	.25	.19	.17
46359	74LS06	14	Hex inverter buffer/driver (O.C.)	.49	.45	.39
46367	74LS07	14	Hex buffer/driver (O.C. hi-voltage)	.89	.79	.69
46375	74LS08★	14	Quad 2-input AND gate	.25	.19	.17
46391	74LS09	14	Quad 2-input AND gate (O.C.)	.29	.25	.19
46404	74LS10	14	Triple 3-input NAND gate	.25	.19	.17
46439	74LS11	14	Triple 3-input AND gate	.25	.19	.17
46640	74LS14★	14	Hex inverter Schmitt trigger	.25	.19	.17
47095	74LS20	14	Dual 4-input NAND gate	.25	.19	.17
47108	74LS21	14	Dual 4-input AND gate	.25	.19	.17
47378	74LS27	14	Triple 3-input NOR gate	.25	.19	.17
47458	74LS30	14	8-input NAND gate	.25	.19	.17
47466	74LS32★	14	Quad 2-input OR gate	.25	.19	.17
47597	74LS37	14	Quad 2-input NAND buffer	.25	.19	.17
47693	74LS38	14	Quad 2-input NAND buffer (O.C.)	.29	.25	.15
47773	74LS42	16	BCD-to-decimal decoder	.69	.59	.49
47790	74LS47★	16	BCD to 7-seg. decoder/driver (O.C.)	.89	.79	.69
47811	74LS48	16	BCD to 7-seg. decoder/driver	4.95	4.49	3.95
47837	74LS51	14	Dual 2-wide 2-input AND/OR inv. gate	.35	.29	.25
47992	74LS73	14	Dual JK flip-flop with clear	.49	.45	.39
48004	74LS74★	14	Dual D flip-flop	.29	.25	.22
48021	74LS75	16	4-bit bi-stable latch	.55	.45	.39
48039	74LS76★	16	Dual JK flip-flop with preset and clear	.69	.59	.49
48063	74LS83	16	4-bit binary full adder	.45	.39	.35
48071	74LS85	16	4-bit magnitude comparator	.35	.29	.25
48098	74LS86★	14	Quad EXCLUSIVE-OR gate	.29	.25	.22
48119	74LS90★	14	Decade counter	.49	.45	.39
48143	74LS92	14	Divide-by-12 counter	.45	.39	.35
48151	74LS93★	14	4-bit binary counter	.69	.59	.49
48178	74LS95	14	4-bit parallel-access shift register	.39	.35	.29
46412	74LS107	14	Dual JK flip-flop with clear	.25	.19	.17
46421	74LS109	16	Dual JK pos. edge-trig. flip-flop	.25	.19	.17
46447	74LS112	16	Dual JK neg. edge-trig. flip-flop	.25	.19	.17
46471	74LS122	14	Retrig. mono. multivibrator comm. CLK	.39	.35	.29
46480	74LS123★	16	Dual mono. multivibrator with clear	.35	.29	.25
46501	74LS125	14	Quad bus buffer neg. enable tri-state	.35	.29	.22
46527	74LS126	14	Quad bus buffer tri-state	.35	.29	.25
46551	74LS132	14	Quad 2-input NAND Schmitt trigger	.35	.29	.25
46578	74LS133	16	13-input NAND Schmitt trigger	.29	.25	.22
46586	74LS136	14	Quad EXCLUSIVE-OR gate (O.C.)	.35	.29	.15
46607	74LS138★	16	3 to 8 decoder/demultiplexer	.29	.25	.22
46623	74LS139	16	2 to 4 decoder/demultiplexer	.29	.25	.22
46666	74LS145	16	BCD-to-decimal decoder/driver	.45	.39	.35
46674	74LS147	16	10 to 4 priority encoder	.99	.89	.79
46682	74LS148	16	8 to 3 priority encoder	.89	.79	.69
46703	74LS151	16	8-input multiplexer	.29	.25	.22
46720	74LS153	16	Dual 4 to 1 selector/multiplexer	.29	.25	.22
46738	74LS154★	24	4 to 16 line decoder/demultiplexer	1.95	1.75	1.55
46754	74LS155	16	Dual 2/4 demultiplexer	.25	.19	.12
46762	74LS156	16	Dual 2/4 demultiplexer (O.C.)	.25	.19	.12
46771	74LS157	16	Quad 2/1 data selector	.29	.25	.22
46800	74LS160	16	Decade counter with asynch. clear	.69	.59	.49
46818	74LS161	16	Synch 4-bit counter (733W01729L1)	.29	.25	.22
46842	74LS163	16	Fully synch. 4-bit counter	.29	.25	.22
46851	74LS164★	14	8-bit serial shift register	.29	.25	.19
46877	74LS165	16	8-bit serial shift register, parallel load	.49	.45	.39
46885	74LS166	16	8-bit shift register, parallel load	.35	.29	.25

74LS00 Series (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
46906	74LS169	16	Synch. binary up/down counter	$.59	$.49	$.35
46922	74LS173	16	4-bit D-type reg. tri-state	.39	.35	.29
46931	74LS174	16	Hex D flip-flop with clear	.29	.25	.22
46957	74LS175	16	Quad D flip-flop with clear	.29	.25	.22
46973	74LS181	24	Arithmetic logic unit/function generator	1.09	.99	.89
47001	74LS191	16	Up/down binary counter	.39	.35	.29
47010	74LS192★	16	Decade up/down counter with clear	2.95	2.75	2.49
47036	74LS193★	16	Binary up/down counter with clear	.59	.49	.45
47052	74LS194	16	4-bit bi-directional shift register	.59	.49	.45
47061	74LS195	16	4-bit parallel-access shift register	.35	.29	.25
47124	74LS221	16	Dual mono. multivibrator Schmitt trigger	.39	.35	.29
47141	74LS240★	20	Octal invert. line driver tri-state	.35	.29	.19
47167	74LS241	20	Octal bus/line driver tri-state	.35	.29	.25
47175	74LS243	14	Quad transceiver tri-state	.35	.29	.25
47183	74LS244★	20	Octal driver tri-state	.39	.35	.29
47212	74LS245★	20	Octal bus transceiver tri-state	.39	.35	.29
47247	74LS247	16	BCD to 7-segment decoder/driver (O.C.)	.79	.69	.59
47271	74LS251	16	8-channel multiplexer tri-state	.35	.29	.15
47280	74LS253	16	Dual 4 to 1 multiplexer tri-state	.29	.25	.19
47298	74LS257	16	Quad 2-input multiplexer tri-state	.29	.25	.22
47319	74LS258	16	Quad 2/1 multiplexer inverting tri-state	.19	.17	.10
47327	74LS259	16	8-bit addressable latch	.39	.35	.29
47360	74LS266	14	Quad EXCLUSIVE-NOR gate (O.C.)	.35	.29	.25
47386	74LS273	20	Octal D-type flip-flop with clear	.39	.35	.29
47407	74LS279	16	Quad set-reset latches	.29	.25	.22
47415	74LS280	14	9-bit odd/even parity generator/checker	.29	.25	.12
47423	74LS283	16	4-bit binary full add with fast carry	.45	.39	.35
111659	74LS295	14	4-bit universal shift register	.79	.69	.59
47440	74LS299	20	8-bit universal shift/storage register	1.09	.99	.89
47562	74LS367	16	Hex buffer tri-state	.29	.25	.22
47600	74LS373★	20	Octal D flip-flop tri-state	.39	.35	.29
47634	74LS374★	20	Octal D F/F edge-trig tri-state	.39	.35	.29
47669	74LS377	20	Octal D register common enable	.39	.35	.29
47722	74LS390	16	Dual 4-bit decade counter	.39	.35	.29
47731	74LS393	14	Dual 4-bit binary counter	.45	.39	.35
171803	74LS491	24	10-bit up/down counter	7.95	6.95	6.25
47861	74LS540	20	Octal invert. buffer/line driver tri-state	.49	.45	.39
47870	74LS541	20	Octal buffer/line driver tri-state	.69	.59	.49
64418	74LS573	20	Octal D-type F/F latch tri-state (74ALS573)	1.29	1.19	1.09
64426	74LS574	20	Octal D-type F/F edge-trig. tri-state	1.29	1.19	1.09
103974	74LS595	16	8-bit serial-to-parallel shift reg. tri-state	3.95	3.59	2.95
47950	74LS645	20	Octal bus transceiver tri-state	.59	.49	.35
171811	74LS669	16	Synchronous 4-bit up/down counters	.69	.59	.49
47984	74LS688	20	8-bit magnitude comparator	1.19	1.09	.99

Part No.	Description	See page 22 for details	1	10
84961	420 pc. 74LS series IC cabinet kit	$137 Value	$109.95	$99.95
130391	Refill package for 84961 kit (420 pcs.)		94.95	85.95

Jameco IC Test Clip Series



- For temporary connections to DIP package components
- Heavy-duty spring loaded hinge provides positive contact
- 20 AWG insulated gold contacts • Color: white plastic

22103

Part No.	Product No.	Description	1	10	25
22103	JTC16★	16-pin (for 8, 14 and 16-pin ICs)	$4.95	$4.49	$3.95
22120	JTC20	20-pin (for 18 and 20-pin ICs)	6.95	6.25	5.59
22146	JTC24	24-pin	6.95	6.25	5.25
22162	JTC28	28-pin	8.95	7.95	6.49
22189	JTC40	40-pin	9.95	8.95	7.95

We can special order any ICs – 100 piece minimum

We carry major manufacturers – call for pricing on quantities over 500.

74S00 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
48320	74S10	14	Triple 3-input NAND gate	$.19	$.10
48338	74S11	14	Triple 3-input AND gate	.19	.10
48750	74S32	14	Quad 2-input OR gate	.19	.10
48944	74S74	14	Dual D flip-flop	.19	.10
48531	74S188	16	256-bit (32x8) PROM O.C. (27S18)	4.95	4.49
48557	74S189	16	64-bit (16x4) RAM tri-state (27S03)	3.95	3.49
48696	74S287	16	1K-bit (256x4) PROM tri-state (TBP24S10)	5.95	5.39
48717	74S288	16	256-bit (32x8) PROM tri-state (TBP18S030N)	2.49	2.25
48768	74S373	20	Octal D-type flip-flop tri-state	.39	.29
48776	74S374	20	Octal D flip-flop edge-triggered tri-state	.59	.39
48805	74S387	16	1K-bit (256x4) PROM O.C. (TBP24SA10N)	4.95	4.49
52513	74S428	28	System contr./bus driver (8228)	.59	.39
48864	74S472	20	4K-bit (512x8) PROM tri-state (TBP28S42N)	7.95	6.95
48910	74S571	16	2K-bit (512x4) PROM tri-state (AM27S13)	6.95	6.25
48928	74S573	18	4K-bit (1024x4) PROM tri-state (53S441J)	2.95	2.75

74HC00 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
45161	74HC00★	14	Quad 2-input NAND gate (6231581)	$.19	$.17	$.15
45188	74HC02	14	Quad 2-input NOR gate	.19	.17	.15
45209	74HC04★	14	Hex inverter (buffered)	.19	.17	.15
45225	74HC08	14	Quad 2-input AND gate	.19	.17	.15
45233	74HC10	14	Triple 3-input NAND gate	.19	.17	.12
45268	74HC11	14	Triple 3-input AND gate	.19	.17	.12
45364	74HC14★	14	Hex inverter Schmitt trigger	.25	.22	.19
45786	74HC30	14	8-input NAND gate	.25	.22	.19
45794	74HC32	14	Quad 2-input OR gate	.19	.17	.15
171846	74HC58	14	Gate 2-wide, 2-input	.29	.25	.22
46130	74HC74★	14	Dual D flip-flop	.29	.25	.22
46172	74HC85	16	4-bit magnitude comparator	.59	.49	.45
46181	74HC86	14	Quad EXCLUSIVE-OR gate	.35	.29	.25
45292	74HC123	16	Dual retrig. monostable multivibrator	.35	.29	.25
45305	74HC125	14	Quad bus buffer tri-state	.39	.35	.29
45321	74HC132	14	Quad 2-input NAND Schmitt trigger	.35	.29	.25
45330	74HC138	16	3 to 8 decoder/demultiplexer	.35	.29	.25
45356	74HC139	16	2 to 4 decoder/demultiplexer	.35	.29	.25
45401	74HC154	S-24	4/16 line decoder (.3"W)	1.19	1.09	.99
111739	74HC154W	24	4/16 line decoder (.6"W)	1.49	1.35	1.09
45452	74HC161	16	Synchronous 4-bit counter	.35	.29	.25
45479	74HC163	16	Synchronous 4-bit counter	.29	.25	.19
45487	74HC164	14	8-bit serial shift register	.39	.35	.29
45495	74HC165	16	Parallel load 8-bit serial shift register	.35	.29	.25
45508	74HC174	16	Hex D flip-flop with clear	.35	.29	.19
45541	74HC192	16	Decade up/down counter with clear	1.59	1.49	1.39
45559	74HC193	16	Binary up/down counter with clear	.99	.89	.79
45604	74HC221	16	Dual mono. multivibrator Schmitt trigger	.65	.55	.45
45612	74HC240	20	Octal inverting line driver tri-state	.49	.45	.39
45655	74HC244	20	Octal driver tri-state	.39	.35	.29
45671	74HC245	20	Octal transceiver tri-state	.39	.35	.29
45743	74HC273	20	Octal D-type flip-flop with clear	.69	.59	.49

74HC00 Series (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
45831	74HC373★	20	Octal D-type flip-flop tri-state	$.45	$.39	$.35
45858	74HC374	20	Octal D-type flip-flop edge-trig tri-state	.45	.39	.35
45874	74HC393	14	Dual 4-bit binary counter	.59	.49	.45
109760	74HC540	20	Octal invert. buffer/line driver tri-state	.79	.69	.59
46050	74HC541	20	Octal buffer/line driver tri-state	.79	.69	.49
46076	74HC573	20	Octal D-type flip-flop tri-state	.79	.69	.59
46084	74HC574	20	Octal D-type flip-flop tri-state	.69	.59	.49
88090	74HC590	16	8-bit binary counter with output reg. tri-state	.99	.89	.79
46105	74HC595	16	8-bit serial-to-parallel shift reg. tri-state	.99	.89	.79
46113	74HC688	20	8-bit mag. comparator	.79	.69	.59
45891	74HC4017	16	Decade ctr./div. with 10 decoded outputs	.79	.69	.59
45903	74HC4020	16	14-stage binary counter	.69	.59	.49
45920	74HC4040	16	12-stage binary counter	.69	.59	.49
45938	74HC4046	16	CMOS phase lock loop	.99	.89	.79
88102	74HC4051	16	Single 8-channel multi/demultiplexer	.89	.79	.69
45962	74HC4060	16	14-stage binary counter	.75	.65	.55
45971	74HC4066	14	Quad analog switch	.59	.49	.45
46009	74HC4514	S-24	4/16-line decoder with latch (.3"W)	1.95	1.75	1.55
46017	74HC4538	16	Dual retrig. mono. multivibrator	.59	.49	.39

74HCT00 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
44871	74HCT00	14	Quad 2-input NAND gate (Y560820T)	$.25	$.19	$.15
44898	74HCT04	14	Hex inverter	.25	.19	.15
44901	74HCT08	14	Quad 2-input AND gate	.25	.19	.15
44935	74HCT14	14	Hex inverter Schmitt trigger	.39	.35	.29
45057	74HCT32	14	Quad 2-input OR gate	.25	.19	.15
45137	74HCT74	14	Dual D flip-flop	.29	.25	.22
44927	74HCT138	16	3 to 8 decoder/demultiplexer	.29	.25	.22
63773	74HCT139	16	2 to 4 decoder/demultiplexer	.25	.19	.12
88057	74HCT154	24	4 to 16 decoder/demultiplexer	1.59	1.49	1.39
45014	74HCT240	20	Octal inverting line driver tri-state	.49	.45	.29
45022	74HCT244	20	Octal driver tri-state	.39	.35	.29
45031	74HCT245	20	Octal transceiver tri-state	.45	.39	.35
45049	74HCT273	20	Octal D-type flip-flop with clear	.49	.39	.35
45065	74HCT373	20	Octal D-type flip-flop tri-state	.49	.45	.29
45073	74HCT374	20	Octal D-type flip-flop edge-trig. TS	.49	.45	.29
99303	74HCT541	20	Octal buffer/line driver tri-state	.69	.59	.49
45090	74HCT573	20	Octal D-type latched flip-flop tri-state	.79	.69	.59
45102	74HCT574	20	Octal D-type flip-flop edge-trigger tri-state	.79	.69	.59
45129	74HCT688	20	8-bit magnitude comparator	.79	.69	.59

Commodore/6000 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
43191	6502	40	MPU with internal clock (1MHz)	$6.95	$6.25
43166	65C02	40	MPU with internal clock (CMOS)	6.95	6.25
43254	6522	40	VIA (versatile interface adapter) 1MHz	5.95	5.39
43318	6551	28	ACIA (asynchronous comm. interface adapter)	3.95	3.49
43182	65C51	28	ACIA (asynchronous comm. interface adapter) CMOS	1.49	1.25
52951	8564	48	VIC (video interface chip for C128)	.39	.25

We carry major manufacturers – call for pricing on quantities over 500.

Generators

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
51879	8038CCPD	14	Precision wave form generator	$3.49	$3.19

UARTs/USARTs/DUARTs/MUARTs

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
39634	2651	28	Communication Chip (USART)	$1.49	$1.25
43158	6402	40	CMOS/LSI UART (TR1863)	4.95	4.49
27588	NS16450N	40	ACE (IBM-AT software compat.)	3.95	3.59
27570	NS16C450N	40	CMOS ACE (IBM-AT software compat.) (82C450)	4.95	4.49
27596	NS16550AN	40	Universal asynch. rcvr/trans. w/ FIFOs (PC16550DN)	6.95	5.95

CD4000 Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
12562	CD4001★	14	Quad 2-input NOR gate	$.25	$.19	$.17
12597	CD4007	14	Dual comp. pair with inverter	.25	.19	.17
12634	CD4011★	14	Quad 2-input NAND gate	.25	.19	.17
12677	CD4013★	14	Dual D flip-flop with set/reset	.25	.19	.17
12706	CD4015	16	Dual 4-stage static shift register	.29	.25	.22
12722	CD4016★	14	Quad bilateral switch (74016)	.29	.25	.22
12749	CD4017★	16	Decade counter/divider	.35	.29	.25
12773	CD4018	16	Presettable divide-by-N counter	.49	.45	.39
12802	CD4020	16	14-stage binary/ripple counter	.45	.39	.35
12829	CD4021	16	8-stage static shift register	.35	.29	.25
54666	CD4022	16	Div. by 8-counter/driver w/8-decoded outputs	.69	.59	.49
12845	CD4023	14	Triple 3-input NAND gate	.25	.19	.15
12853	CD4024	14	7-stage binary counter	.35	.29	.25
12870	CD4025	14	Triple 3-input NOR gate	.35	.29	.25
12888	CD4027	16	Dual JK master-slave flip-flop	.25	.19	.17
12909	CD4028	16	BCD-to-decimal decoder	.29	.25	.22
12925	CD4029	16	Presettable up/down counter	.49	.45	.39
12950	CD4040	16	12-stage binary/ripple counter	.39	.35	.29
12984	CD4042	16	Quad clocked D latch	.35	.29	.19
12992	CD4043	16	Quad NOR R-S latch tri-state	.29	.25	.17
13004	CD4044	16	Quad 3-state NAND R-S latch tri-state	.49	.45	.39
13012	CD4046	16	Micropower phase-locked loop	.49	.45	.39
13039	CD4047	14	Monostable/astable multivibrator	.59	.49	.45
13055	CD4049★	16	Hex/buffer/converter (inverting)	.25	.19	.17
13071	CD4050★	16	Hex/buffer/converter (N-inverting)	.25	.19	.17
13098	CD4051★	16	Single 8-channel multi./demultiplexer	.45	.39	.35
13119	CD4052★	16	Diff. 4-channel multi./demultiplexer	.45	.39	.25
13127	CD4053★	16	Triple 2-channel multi./demultiplexer	.45	.39	.35
13151	CD4060	16	14-stage ripple-carry binary	.49	.45	.39
13186	CD4066★	14	Quad bilateral switch	.35	.29	.25
13215	CD4067	24	16-channel analog multi/demultiplexer	1.75	1.55	1.35
13231	CD4069★	14	Hex inverter (74C04)	.25	.19	.17
13258	CD4070	14	Quad EXCLUSIVE-OR gate (74C86)	.25	.19	.15
13274	CD4071	14	Quad 2-input OR gate	.25	.19	.17
13354	CD4081★	14	Quad 2-input AND gate	.25	.19	.17
13400	CD4093★	14	Quad 2-input NAND Schmitt trigger	.29	.25	.22
13426	CD4094	16	8-stage shift-and-store bus register	.49	.45	.39
13434	CD4098	16	CMOS/MOS dual mono. multivibrator	.49	.45	.39
13442	CD4099	16	8-bit addressable latch	.49	.45	.39
44257	CD40106	14	Hex inverter Schmitt trigger (74C14)	.39	.35	.29
13469	CD4503	16	Tri-state hex buffer (74C367) 80C97	.49	.45	.39
13485	CD4510	16	BCD up/down counter	.69	.59	.49
13493	CD4511★	16	BCD to 7-seg. latch/decoder/driver	.69	.59	.49
13514	CD4512	16	8-channel data selector	.59	.49	.45
13522	CD4514	24	4-bit latch/4-16 line decoder	.89	.79	.69

CD4000 Series (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
13549	CD4516	16	Binary up/down counter	$.49	$.45	$.39
13565	CD4518	16	Dual BCD up counter	.49	.45	.39
13581	CD4520	16	Dual binary up counter	.45	.39	.35
13590	CD4522	16	Program. BCD divide-by-N counter	.49	.45	.39
13602	CD4526	16	Divide-by-N counter (binary)	.69	.59	.49
13611	CD4528	16	Dual monostable multivibrator	.69	.59	.49
13653	CD4538	16	Dual precision monostable multivibrator	.49	.45	.39
13688	CD4541	14	Oscillator/programmable timer	.49	.45	.39
13696	CD4543	16	BCD to 7-segment decoder (LCD)	.69	.59	.49
13709	CD4553	16	3-digit BCD counter	2.95	2.75	2.49
13725	CD4556	16	Dual binary 1 of 4 decoder inverter	.49	.45	.29
13768	CD4584	14	Hex Schmitt trigger (74C14) 40106	.39	.35	.29

Part No.	Description	1	10
84970	300 pc. CD4000 series IC cabinet kit	$79.95	$71.95
130403	Refill package for 84970 kit (300 pcs.)	64.95	57.95

See page 22 for details

$99 Value

Harris/Intersil Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
43748	7106CPL	40	3 1/2-digit LCD single-chip A/D converter	$2.39	$2.19
43756	7107CPL	40	3 1/2-digit LED single-chip A/D converter	2.39	2.19
43764	7109CPL	40	12-bit A/D converter	5.95	5.39
43801	7217AIPI	28	4-digit LED up/down counter (com. cathode)	8.95	7.95
51140	7555IPA	8	CMOS timer (LM555CN)	.59	.49
51174	7660CPA	8	CMOS volt converter (+5 to ± 5V) (M660AN)	1.09	.99
172152	8020ACPD	14	Quad current switch for D/A conversion	.49	.39
51879	8038CCPD	14	Waveform generator/volt control OSC	3.49	3.19

Motorola Series

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
25435	MC846P	14	Quad 2-input gate	$2.95	$2.75
24942	MC1350P	8	Video IF amp (12V operation)	.99	.89
14912	MC1408-6	16	8-bit D to A converter (DAC0806LCN)	1.49	1.29
14947	MC1408-8	16	8-bit D to A converter (DAC0808LCN)	1.49	1.29
118578	MC1495L	14	Linear four quadrant multiplier	10.95	9.95
23211	MC1496P	14	Balanced modulator/demodulator (LM1496N)	.89	.79
25216	MC3479P	16	Biphase stepper motor driver	4.95	4.49
25232	MC3486P	16	Quad EIA-422/423 line rec. with 3-state outputs	.69	.59
25259	MC3487P	16	Quad EIA-422 line driver with 3-state outputs	.69	.59
25275	MC4044P	14	Frequency phase detector (11C44)	8.95	7.95
25355	MC68701	40	8-bit EPROM (2048 USA) MPU w/ 128B RAM & I/O	17.95	15.95
25021	MC14411P	24	Bit rate frequency generator	8.95	7.95
25064	MC14490P	16	Hex contact bounce eliminator	4.95	4.49
118586	MC145151P	28	Parallel input PLL freq. synthesizer	5.95	5.39
25099	MC145406P	16	RS232-C/V.28 driver/rec. (CMOS)(75C1406N)	1.95	1.75
25101	MC146818	24	Real time clock plus RAM	5.95	5.39

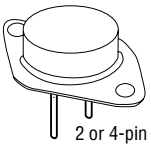
Signetics Series

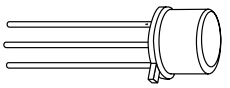
Dual-In-Line Package

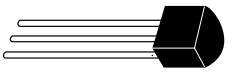
Part No.	Product No.	Pins	Description	1	10
27844	N82S23	16	256-bit PROM open collector	$4.95	$4.49
27748	N82S100	28	Field prog. logic array (16x48x8 tri-state) (PLS100)	11.95	10.95
27764	N82S123	16	256-bit PROM (32x8 tri-state) (27S19)	5.95	5.39
27772	N82S126	16	1024-bit PROM (256x4 open collector)	6.95	6.25
27781	N82S129	16	1024-bit PROM (256x4 tri-state) (AM27S21)	4.95	4.49
27799	N82S131	16	2048-bit PROM (512x4 tri-state) (AM27S13)	6.95	6.25
27801	N82S137	18	4096-bit PROM (1024x4 tri-state)	3.95	3.59
27810	N82S181	24	8192-bit bipolar PROM (1024x8 tri-state)	6.95	5.95
27828	N82S185	18	8192-bit PROM (2048x4 tri-state)	4.95	4.49
27836	N82S191	24	16,384-bit PROM (2048x8 tri-state)	5.95	5.39
31798	SCN2681A	40	Dual asynch. receiver/transmitter (DUART)	3.95	2.95

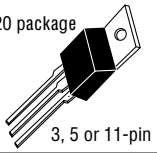
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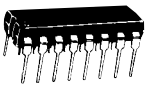
We carry major manufacturers – call for pricing on quantities over 500.

TO-3 package  2 or 4-pin

TO-5 package  3, 4, 8 or 10-pin

TO-92 package  3-pin

TO-220 package  3, 5 or 11-pin

DIP package  8, 10, 14, 16, 18, 20 or 28-pin

Linear Series

Package (see above)

Part No.	Product No.	Pins	Description	1	10	100
23051	LH0002CN	10	Current amplifier	$7.95	$6.95	$5.95
27852	OP07★	8	Ultra-low-offset-voltage op amp.	.99	.89	.79
120715	LM10CN	8	Op amp and voltage reference	5.95	5.39	4.95
23106	LM10CLN	8	Low voltage (1.1 volt) op amp.	3.95	3.59	3.25
25751	MF10CN	20	General purpose dual active filter	3.25	2.75	2.49
120723	LM12CLK	TO-3/4	80W op amp.	29.95	27.95	25.95
16301	DS0026CN	8	Dual mos clk. driver (5MHz)(TC426CPA)	1.39	1.29	1.19
107094	LM34CZ	TO-92	Prec. F temp. sensor (-40˚F to +230˚F)	5.95	5.39	4.95
155192	LM34DZ	TO-92	Prec. F temp. sensor (+32˚F to +212˚F)	1.75	1.55	1.35
107107	LM35CZ	TO-92	Prec. C temp. sensor (-40˚C to 110˚C)	4.95	4.49	3.95
155740	LM35DZ	TO-92	Prec. C temp. sensor (0˚C to +100˚C)	1.75	1.55	1.35
33161	TL062CP	8	Low-power JFET op amp. (VCC 8-pin)	.69	.59	.49
33179	TL064CN	14	Low-power JFET-input op amp.	.79	.69	.59
33187	TL071CP	8	Low noise JFET op amp.	.39	.35	.29
33195	TL072CP★	8	Low noise JFET dual op amp.	.39	.35	.29
33216	TL074CN★	14	Low noise JFET quad op amp.	.55	.45	.39
33232	TL081CP	8	JFET-input op amp.	.49	.45	.39
33241	TL082CP★	8	JFET-input dual op amp.	.49	.45	.39
33267	TL084CN★	14	JFET-input quad op amp.	.55	.45	.39
24811	MAX232CPE★	16	Dual RS232 receiver/transmitter	1.75	1.55	1.35
23392	LM301N★	8	Improved op amp.	.39	.35	.29
23464	LM308N★	8	Precision op amp.	3.95	3.59	3.25
23499	LM309K★	TO-3/2	5V 1A regulator (0˚C to +125˚C)	4.95	4.49	3.95
23528	LM311N★	8	Voltage comparator	.29	.25	.22
23544	LM317K	TO-3/2	1.5A adj. pos. reg. (1.2V-37V)	1.95	1.75	1.55
23552	LM317LZ	TO-92	100mA adj. pos. reg. (1.2V-37V)	.49	.45	.39
23579	LM317T★	TO-220/3	1.5A adj. pos. reg. (1.2V-37V)	.45	.39	.35
23608	LM318N★	8	Precision hi-speed op amp.	.69	.59	.49
23632	LM319N	14	Hi-speed dual comparator	.79	.69	.59
23667	LM323K★	TO-3/2	5V 3A positive reg.	3.95	3.59	3.25
23683	LM324N★	14	Low power quad op amp. (ULN4336)	.29	.25	.22
23721	LM331N	8	Precis. volt to freq. converter(150ppm/°C)	2.95	2.75	2.49
23739	LM334Z	TO-92	Adjust current source	.79	.69	.59
120820	LM335AZ	TO-92	Precision temperature sensor	3.95	3.59	2.95
23755	LM335Z★	TO-92	Volt mode temperature sensor	.99	.89	.79
23771	LM336Z	TO-92	Voltage reference (2.5V)	.79	.69	.59
23798	LM337K	TO-3/2	1.5A/3 term. adj. neg. reg.	2.95	2.75	2.49
23819	LM337T★	TO-220/3	1.5A/adj. neg. reg. (-1.2V-37V)	.79	.69	.59
23835	LM338K★	TO-3/2	5A adj. pos. reg. (1.2V-32V)	3.95	3.59	3.25
23851	LM339N★	14	Quad comparator	.29	.25	.22
22904	LF347N	14	Quad JFET input op amp. (wide band)	.69	.59	.49
23915	LM348N★	14	Quad 741 op amp. (UPC4741C)	.49	.45	.39
23931	LM350K	TO-3/2	3A/3 term. adj. pos. reg. (1.2V-33V)	3.95	3.59	3.25
23940	LM350T★	TO-220/3	3 amp. adj. power regulator	1.75	1.55	1.35
22912	LF351N	8	BIFET op amp.	.49	.45	.39
22939	LF353N★	8	Dual BIFET op amp. (comp. w/ TL082CP)	.39	.35	.29
22971	LF356N	8	JFET input op amp. (wide band)	.79	.69	.59
22998	LF357N	8	JFET input op amp. (wide band decom.)	.79	.69	.59
120862	LM358AN	8	Low power dual op amp (elect improv.)	.69	.59	.49
23966	LM358N★	8	Low power dual op amp.	.25	.22	.19
24037	LM380N★	14	2-watt audio power amp.	1.19	1.09	.99
24088	LM383T	TO-220/5	7-watt audio high power amp.	4.95	4.49	3.95
24096	LM384N	14	5-watt audio amp.	1.95	1.75	1.55

Linear Series (Continued)

Package (see above)

Part No.	Product No.	Pins	Description	1	10	100
120889	LM385BZ2.5	TO-92	Volt. ref. diode (2.5V±1.5%)	$1.09	$.99	$.89
24109	LM385Z	TO-92	Volt. ref. diode (2.5V±3%)	.59	.49	.29
24117	LM385Z1.2	TO-92	Micropower volt. ref. diode (1.2V)	.79	.69	.59
24125	LM386N-1★	8	Low voltage audio amp. 250mW/6V	.39	.35	.29
24133	LM386N-3★	8	Low voltage audio amp. 500mW/9V	.69	.59	.49
24281	LM393N★	8	Dual comparator	.29	.25	.22
23000	LF398N	8	Sample and hold circuit	1.49	1.29	1.19
23018	LF411CN	8	Low offset drift JFET input op amp.	.79	.69	.59
23026	LF412CN	8	Low offset drift JFET input dual op amp.	1.19	1.09	.99
33347	TL431CLP	TO-92	Program precision reference	.39	.35	.29
33355	TL494CN	16	Control. ckt. pulse width modulated	.79	.69	.59
27422	LM555CN★	8	Timer (MC1455P/NE555V)	.25	.22	.19
126797	LMC555CN	8	CMOS 555 timer	.49	.45	.39
34930	XRL555★	8	Micro power 555 timer	.89	.79	.69
24328	LM556N★	14	Dual 555 timer (MC3456P)	.45	.39	.35
180419	HA17558	8	Quad timer	.39	.35	.29
27457	NE558N	16	Quad timer (NE558C)	.39	.35	.29
27473	NE564N	16	High freqency phase locked loop	1.95	1.75	1.55
24352	LM565N★	14	Phased locked loop	1.49	1.29	1.19
24395	LM567V★	8	Tone decoder	.49	.45	.39
27481	NE570N	16	Compander, trunk	5.95	5.39	4.95
27490	NE571N	16	Compander, subscriber	2.75	2.49	2.25
143976	LMC660CN	14	CMOS quad operational amp.	2.09	1.95	1.75
120926	LM675T	TO-220/5	Power op amp.	6.95	6.25	5.49
24459	LM723CH	TO-5/10	Voltage regulator (2V-37V)	.79	.69	.49
24467	LM723CN★	14	Voltage regulator (2V-37V)	.39	.35	.29
24483	LM725CN	8	Instrumentation op amp.	2.75	2.49	2.25
24491	LM733CN	14	Differential amp.	.99	.89	.79
24521	LM741CH	TO-5/8	Op amp.	1.39	1.29	1.19
24539	LM741CN★	8	Op amp. (ULN2151)	.25	.22	.19
24563	LM747CN★	14	Dual 741 op amp.	2.95	2.75	2.49
143896	LM837N	14	Low-noise quad operational amp.	1.95	1.75	1.55
32889	TDA1170S	12	TV vertical deflection system	1.95	1.75	1.25
119706	LM1203N	28	RGB video amp system	1.49	1.39	1.19
23131	LM1458N★	8	Dual op amp. (RC4558)	.25	.22	.19
23157	LM1488N★	14	Quad line driver RS232 (75188)	.29	.25	.22
16361	DS14C88N	14	Quad CMOS line driver (RS232)	.59	.49	.45
23181	LM1489N★	14	Quad line rec. RS232 (75189)	.29	.25	.22
16379	DS14C89N	14	Quad CMOS line rec. (RS232)	.59	.49	.45
23211	LM1496N	14	Balanced mod./demodulator (MC1496P)	.89	.79	.69
23237	LM1871N	18	Radio control encoder/trans.	.89	.79	.59
23270	LM1875T	TO-220/5	20-watt power audio amp.	2.25	1.95	1.75
23288	LM1877N-9	14	Dual power audio amp.	1.95	1.75	1.25
107140	LM1881N	8	Video synchronous separator	2.75	2.49	2.25
34260	ULN2001	16	Hi-volt./curr. darl. transistor array	.35	.29	.25
32897	TDA2002V	TO-220/5	8-watt audio high power amp.	1.95	1.75	1.55
34278	ULN2003A★	16	Hi-volt/curr. darl. transistor array	.39	.35	.29
34294	ULN2004A	16	Hi-volt/curr. darl. trans. array (XR2204CP)	.39	.35	.29
34972	XR2206★	16	Monolithic function generator	3.25	2.95	2.75
34999	XR2211	14	FSK demodulator/tone decoder	1.79	1.59	1.39
156566	LM2574N-5	8	Step-down 5-voltage regulator	2.49	2.19	1.95
155281	LM2577NADJ	16	SIMPLE SWITCHER™ step-up volt reg.	2.95	2.75	2.25

We carry major manufacturers – call for pricing on quantities over 500.

Linear Series (Continued)

Package (see page 10)

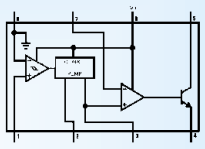
✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Product No.	Pins	Description	1	10	100
156224	LM2588TADJ	TO-220/3	5A flyback regulator	$2.95	$2.75	$2.49
39571	26LS30	16	Dual diff RS422 party line Qd RS423 line driv.	1.95	1.75	1.49
39589	26LS31	16	Quad diff line driver	.79	.69	.59
39600	26LS32	16	Quad diff line receiver	.59	.49	.45
39626	26LS33	16	Quad diff line receiver (O.C.)	.59	.49	.25
34315	ULN2803A	18	Hi-volt. hi-curr. darl. transis. array	.69	.59	.49
23296	LM2901N	14	Quad comp. (LP) MC3302P	.39	.35	.29
57007	LM2902N	14	Low power quad op amp. (TA75902P)	.39	.35	.19

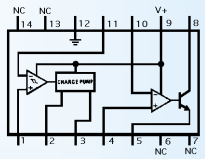
National Semiconductor Frequency to Voltage Converter

The LM2907 is a monolithic frequency to voltage converter with a high gain op amp/comparator designed to operate a relay, lamp, or other load when the input frequency reaches or exceeds a selected rate. The tachometer uses a charge pump technique and offers frequency doubling for low ripple, full input protection in the LM2907-8 and its output swings to ground or a zero frequency input.

- Ground referenced tachometer input interfaces directly with variable reluctance magnetic pickups
- Op amp/comparator has floating transistor output
- 50mA sink or source to operate relays, solenoids, meters, or LEDs
- Frequency doubling for low ripple
- Tachometer has built-in hysteresis with either differential input or ground referenced input



123625



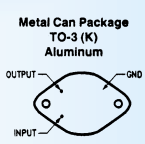
23317

Part No.	Product No.	Pins	Description	1	10	100
123625	LM2907N-8	8	Frequency to volt converter	$2.49	$2.25	$1.95
23317	LM2907N	14	Frequency to volt converter	1.75	1.55	1.25
23350	LM2917N-8	8	Frequency to volt converter (CS2917)	2.95	2.75	2.49
23341	LM2917N-14	14	Frequency to volt converter (CS2917)	2.75	2.49	2.25
107166	LM2936Z-5	TO-92	Ultra-low quiescent current 5V reg.	1.75	1.55	1.25
107182	LM2940CT-5	TO-220/3	5V low dropout reg. (max. 45V_{in})	1.29	1.19	1.09
23376	LM2941T	TO-220/5	1A low dropout adjustable regulator	1.75	1.55	1.35
156241	LM2990T-12	TO-220/3	-12V/1A neg. low dropout regulator	1.95	1.75	1.25
156259	LM2990T-15	TO-220/3	-15V/1A neg. low dropout regulator	1.95	1.75	1.25
156558	LM2991T	TO-220/3	Neg. low dropout adj. regulator	1.95	1.75	1.25
107238	LM3302N	14	Low pwr. low offset volt quad cmpr.	.49	.45	.39
31974	SG3524	16	Regulating pulse width modulator	.79	.69	.59
126834	LM3876T	TO-220/11	40W high perf. audio amp. with mute	4.49	3.95	3.59
24168	LM3900N★	14	Quad amp. (CA3401)	.79	.69	.59
24192	LM3909N	8	LED flasher/oscillator	6.95	6.25	5.95
24230	LM3914N★	18	Bar-graph display driver (100138)	1.95	1.75	1.55
24256	LM3915N	18	3 DB steps bar-graph disp. driver	1.75	1.55	1.35
24272	LM3916N	18	VU meter display driver	2.25	1.95	1.75
29356	RC4136N	14	Quad op amp (XR4136)	.89	.79	.69
29372	RC4151NB	8	Volt to freq. converter (XR4151)	1.29	1.19	1.09
121072	LM4250CN	8	Programmable op-amp	1.29	1.19	1.09
27385	NE5532★	8	Dual low-noise op-amp	.59	.49	.39
27406	NE5534★	8	Low noise op-amp.	.79	.69	.59
51182	78L05★	TO-92	5V pos. voltage regulator (100mA)	✳	.17	.15
51203	78L12	TO-92	12V pos. voltage regulator (100mA)	✳	.17	.15
51246	7805K★	TO-3/2	5V 1A pos. voltage reg. (LM340K-5)	1.49	1.39	1.29
51318	7812K★	TO-3/2	12V 1A pos. voltage reg. (LM340K-12)	1.49	1.39	1.29

UNITRODE 7815K 15V 1A Positive Voltage Regulator

The 78XX series of three terminal voltage regulators is available with 5V, 12V and 15V fixed output voltages making them useful in a wide range of applications.

- Output current in excess of 1.0A • Internal thermal overload protection • No external components required
- Output transistor safe area protection • Voltage range: 15V
- Internal short circuit current limit



Part No.	Product No.	Pins	Description	1	10	100
51369	7815K	TO-3/2	15V 1A pos. voltage reg. (LM340K-15)	$.75	$.49	$.25

Linear Series (Continued)

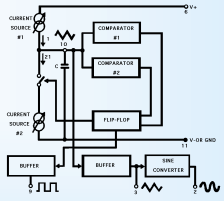
Package (see page 10)

Part No.	Product No.	Pins	Description	1	10	100
51262	7805T★	TO-220/3	5V 1A pos. voltage reg. (LM340T-5)	$.29	$.25	$.22
51297	7806T★	TO-220/3	6V 1A pos. voltage reg. (LM340T-6)	.29	.25	.22
51300	7808T★	TO-220/3	8V 1A pos. voltage regulator	.29	.25	.22
51334	7812T★	TO-220/3	12V 1A pos. voltage regulator	.29	.25	.22
51377	7815T★	TO-220/3	15V 1A pos. voltage regulator	.29	.25	.22
51414	7824T	TO-220/3	24V 1A pos. voltage regulator	.29	.25	.22
51238	78S40	16	1.5 amp switching reg. (1.25V-40V)	1.95	1.75	1.25
51422	79L05	TO-92	5V neg. voltage regulator (100mA)	.25	.22	.19
51431	79L12	TO-92	12V neg. voltage regulator (100mA)	.25	.22	.19
51457	7905T★	TO-220/3	5V 1A neg. voltage regulator	.35	.29	.25
51481	7912T★	TO-220/3	12V 1A neg. voltage regulator	.35	.29	.25
51502	7915T★	TO-220/3	15V 1A neg. voltage regulator	.35	.29	.25

Precision Waveform Generator/Voltage Controlled Oscillator

The ICL8038 waveform generator is a monolithic integrated circuit capable of producing high accuracy sine, square, triangular, sawtooth and pulse waveforms with a minimum of external components. It is fabricated with advanced monolithic technology, using Schottky barrier diodes and thin film resistors, and the output is stable over a wide range of temperature and supply variations.

- Low frequency drift with temperature: 250ppm/°C
- Low distortion: 1% (sine wave output)
- High linearity: 0.1% (triangle wave output)
- Wide frequency range: 0.001Hz to 300kHz
- Variable duty cycle: 2% to 98%
- High level outputs: TTL to 28V
- Simultaneous sine, square, and triangle wave outputs



Part No.	Product No.	Pins	Description	1	10	100
51879	8038CCPD	14	Precision wave form generator	$3.49	$3.19	$2.75
50884	75154	16	Quad line receiver (9617)	.79	.69	.59
50930	75173	16	Quadruple differ. line receiver	1.69	1.49	1.09
50948	75174	16	Quad diff. RS422 line dvr. with 3-state out	1.09	.99	.89
50956	75175	16	Quad diff. EIA 422A/423A line rec.w/3-st. out	1.09	.99	.89
50964	75176★	8	Differential bus transceiver	.79	.69	.59
16424	75182	14	Dual line receiver (DS8820N)	1.09	.99	.69
16432	75183	14	Dual differ. line driver (DS8830N)	1.09	.99	.59
23157	75188	14	Quad line driver RS232 (LM1488N)	.29	.25	.22
23181	75189	14	Quad line rec. RS232 (LM1489N)	.29	.25	.22
51027	75451	8	Dual peripheral AND driver	.35	.29	.22
51035	75452	8	Dual peripheral NAND driver	.45	.39	.35
51131	75492	14	Hex digit driver (492)	5.95	5.39	4.95

Part No.	Description	See page 22 for details	1	10
84988	480 pc. Linear IC cabinet kit	$191 Value	$169.95	$152.95
130411	Refill package for 84988 (480 pcs.)		154.95	139.95

Linear Series

SOIC Package



Part No.	Product No.	Pins	Description	1	10	100
86721	LM324D	14	Low power quad op amp (WP 90)	$.29	$.25	$.22
86799	LM555CM	8	Timer (NE555D)	.39	.35	.25

Maxim Linear Series

Dual-In-Line Package



Part No.	Product No.	Pins	Description	1	10
142535	MAX202CPE	16	+5V RS232 transceiver with 0.1μf capacitors	$2.49	$2.25
24811	MAX232CPE★	16	+5V powered, dual RS232 transmitter/receiver (0°C to +70°C)	1.75	1.55
106147	MAX232CWE	16 (SOIC)	+5V powered, dual RS232 transmitter/receiver	1.95	1.75
106155	MAX232EPE	16	+5V powered, dual RS232 transmitter/receiver (-40°C to +85°C)	2.49	2.25
106163	MAX233CPP	20	+5V powered, multichannel RS232 drivers/receivers (no ext. components)	4.95	4.49

We can special order any ICs – 100 piece minimum

We carry major manufacturers – call for pricing on quantities over 100.

Maxim Linear Series (Continued) Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
106171	MAX235CPG	24	+5V powered, five RS232 transmitter/ receiver (no ext. components)	$9.95	$8.95
106180	MAX238CNG	24	+5V powered, quad RS232 transmitter and receiver	4.75	4.25
106219	MAX690CPA	8	Microprocessor watchdog/battery switchover/reset generator	3.95	3.59
106227	MAX691CPE	16	Microprocessor watchdog/battery switchover/reset generator	5.49	4.95
106260	MAX1232CPA	8	Microprocessor monitor	2.49	2.25

Atmel AT89C Series Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10	100
168866	AT89C1051-24PC	20	8-bit MCU, 24MHz 1Kb flash memory	$3.75	$3.49	$3.19
168874	AT89C2051-24PC	20	8-bit MCU, 24MHz 2Kb flash memory	3.75	3.49	3.19
168891	AT89C51-20PC	40	8-bit MCU, 20MHz 4Kb flash memory	3.75	3.49	3.19
168903	AT89C51-24PC	40	8-bit MCU, 24MHz 4Kb flash memory	3.95	3.59	3.25
173930	AT89C52-20PC	40	8-bit MCU, 20MHz 8Kb flash memory	4.95	4.49	3.95
168920	AT89C52-24PC	40	8-bit MCU, 24MHz 8Kb flash memory	5.95	5.39	4.95
168938	AT89C52-24JC	44	8-bit MCU, 24MHz 8Kb flash memory PLCC	4.95	4.49	3.95
175880	AT89C55-33PC	40	8-bit MCU, 33MHz 20Kb flash memory	7.95	7.19	6.49

RCA Linear Series Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
12079	CA3046N	14	NPN transistor array (ULN2046)	$.49	$.35
12116	CA3080E	8	Op transconductance amp. (100135)	.69	.59
12124	CA3081N	16	Com. emitter NPN array (ULN2081)	.69	.59
12159	CA3086N	14	Transistor array NPN (ULN2086)	.49	.39
12183	CA3130E	8	CMOS op amp.	1.29	1.09
12204	CA3140E	8	Bi-MOS op amp.	.79	.69
12239	CA3161E	16	BCD to 7-seg. decoder driver	2.19	1.95
12247	CA3162E	16	Dual slope & rate analog/dig. convert	6.95	6.25
24168	CA3401N	14	Quad amp (LM3900N) (221-235)	.79	.69

Z80 Series Microprocessors Dual-In-Line Package

Part No.	Product No.	Pins	MHz	Description	1	10
35561	Z80	40	2.5	CPU (MK3880N/780C)	$1.39	$1.19
35588	Z80-PIO	40	2.5	Parallel I/O interface controller	1.25	.75
35596	Z80A★	40	4	CPU (MK3880N-4/780C-1)	1.75	1.55
35609	Z80A-CTC	28	4	Counter timer circuit (MK3882-4)	1.75	1.55
35625	Z80A-DART	40	4	Dual asynchronous rec./transmitter	2.95	2.75
35641	Z80A-PIO	40	4	Parallel I/O interf. contr. (MK3881-4)	1.49	1.29
35668	Z80A-SIO/0	40	4	Serial I/O (TxCB & RxCB bond.) MK3884-4	2.19	1.95
35684	Z80A-SIO/2	40	4	Serial I/O (lacks SYNCB) MK3887-4	1.75	1.25
35705	Z80B	40	6	CPU (MK3880N-6)	2.25	1.95
35781	Z84C00-4	40	4	CPU (Z84C0004PEC) CMOS	4.25	3.75
35799	Z8530	40	2	Serial communications controller	2.95	1.95

5000 Series and Clock Chips Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
32803	TCM5089N	16	Integrated tone dialer chip	$4.95	$4.49
26091	MM5321N	16	TV camera synchronous generator	5.95	5.39
172347	MM5313N	28	6-digit LED/BCD and 7-seg. readout clock chip	5.95	5.39
26083	MM5314N	24	6-digit LED/incandes. readout clock chip	19.95	17.95
26171	MM5450N	40	34-segment LED display driver	4.95	4.49
26147	MM54104N	40	Speech processor chip and data	19.95	17.95
26201	MM58167AN	24	Microprocessor real time clock	4.95	4.49
29591	RTC58321B	16	Real time clock module (see page 16)	7.95	6.95
95530	RTC72421B	18	Real time clock module (see page 16)	6.95	5.95

6800 Series Microprocessors Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
43481	6800	40	8-bit MCU	$5.95	$5.39
43529	6803	40	8-bit MCU with 128K RAM	5.95	5.39
43537	6808	40	8-bit MPU with clock	5.95	5.39
43545	6809E	40	MPU with external clock (1MHz)	3.95	3.59
43561	6810	24	128x8 static RAM (1MHz)	.89	.79
43596	6821★	40	Peripheral interface adapter (1MHz)	2.95	2.75
43414	68B21	40	Peripheral interface adapter (2MHz)	3.25	2.95
43617	6840	28	Programmable timer (1MHz)	2.95	2.75
43633	6850	24	Asynch. comm. int. adapter (ACIA)	1.95	1.75
25304	MC68000L8	64	MPU 16-bit (8MHz)	7.95	6.95
25291	MC68000L10	64	MPU 16-bit (10MHz)	12.95	11.95
25347	MC68661PB	28	Enhanced prog. comm. interf. (2661-1/2) 4.9152MHz	4.95	3.95
39642	MC68661PC	28	Enhanced prog. comm. interf. (2661-3) 5.0688MHz	.99	.75
25355	MC68701	40	8-bit EPROM (2048 USA) MPU w/ 128B RM & I/O	17.95	15.95
25363	MC68705P3S	28	8-bit EPROM (1804 Usa) MPU w/ 112B RAM & I/O	15.95	13.95
25371	MC68705U3S	40	8-bit EPROM (3776 Usa) MPU w/ 112B RAM & I/O	19.95	17.95
116960	MC68HC11A1P	48	8-bit micro controller with A/D converter	15.95	13.95
108919	MC68HC705C8P	40	8-bit HCMOS MCU, 8K OTPROM, 24 I/O lines	9.95	8.95
132484	MC68HC705C8S	40	8-bit, HCMOS MCU, 8K bytes, EPROM	34.95	31.95
108927	MC68HC705K1P	16	8-bit HCMOS MCU, 504 bytes, OTPROM, 10 I/O, timer	4.95	4.49

8000 Series Microprocessors Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
51844	8031★	40	CPU with 128x8 RAM and I/O	$2.95	$2.75
51676	80C31	40	CPU with 128x8 RAM and I/O (CMOS)	2.95	2.75
102197	8032	40	8-bit MCU 256x8 RAM	3.95	3.59
108804	80C32-1	40	8-bit MCU 256x8 RAM (CMOS)	3.95	3.59
51861	8035	40	MPU 8-bit	3.95	3.59
51959	8039	40	CPU single chip 8-bit (128 bytes RAM)	3.49	3.25
51692	80C39	40	CPU single chip 8-bit (128 bytes RAM) CMOS	3.95	3.59
51975	8048*	40	MPU 8-bit (can use for 8035)	.59	.49
51983	8049*	40	CPU single chip 8-bit (can use for 8039)	.99	.89
51991	8051AP**	40	MCU with 128x8 RAM	3.95	3.59
52003	8052AH**	40	CPU 8-bit 256 bytes RAM, timer/counter and I/O	5.95	5.39
125647	80C52BASIC	40	CPU 8-bit CMOS with basic interpreter	19.95	17.95
126252	BK52	—	Basic-52 Programming Book (see pg 99)	22.95	19.95
52046	8080A	40	CPU 8-bit N-channel (1MHz)	2.95	2.75
52062	8085A★	40	CPU 8-bit N-channel (3MHz)	4.49	3.95
52071	8085A-2	40	CPU 8-bit N-channel (5MHz)	4.95	4.49
51705	80C85	40	CPU 8-bit N-channel (3MHz)(CMOS)	5.95	5.39
52100	8086-2	40	CPU 16-bit (8MHz)	1.95	1.75
52142	8088	40	CPU 16-bit (8-bit data bus) 5MHz	2.95	2.75
52169	8088-2	40	CPU 16-bit (8-bit data bus) 8MHz	5.95	5.39
52290	8155★	40	HMOS RAM I/O port/timer (3MHz)	4.95	3.95
52302	8155-2	40	HMOS RAM I/O port/timer (5MHz)	5.95	5.39
52193	81C55	40	256x8 RAM I/O port/tmr (CMOS) 3MHz	3.95	3.25
52329	8156	40	RAM with I/O port and timer	9.95	8.95
52468	8212	24	8-bit input/output (74S412)	5.95	5.39
52484	8216	16	Bi-directional bus driver (non-invert.)	3.95	3.59
52492	8224	16	Clock generator/driver	2.95	2.49
52513	8228	28	System contr./bus driver (74S428)	.59	.39
52556	8237-5	40	Program. DMA controller (UPD71037)	.59	.39
52581	8243	24	I/O expander for 48 series	4.95	4.25

* 8048, 8049 (ROM not available for use) Tie pin 7 high to bypass the internal ROM (to convert 8048 to 8035 or 8049 to 8039) ** Tie pin 31 low to bypass the internal ROM

We carry major manufacturers – call for pricing on quantities over 100.

8000 Series Microprocessors (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
52610	8250A	40	Asynchronous comm. element	$4.95	$4.49
52628	8250B	40	ACE (IBM PC/XT software compat.)	3.95	3.25
52644	8251	28	Prog. comm. I/O (USART)	2.95	2.25
52652	8251A★	28	Prog. comm. interface (USART)	3.49	3.25
52370	82C51A	28	Prog. comm. interface (USART) CMOS	3.95	3.59
52679	8253	24	Prog. interval timer	3.95	3.59
52687	8253-5	24	Prog. interval timer (2MHz)	4.49	3.95
52388	82C53-5	24	Prog. interval timer (CMOS) 2MHz	4.95	4.49
180427	82C53-5SSOP	32	Prog. interval timer (CMOS) 2MHz (PLCC)	3.95	3.59
52708	8254	24	Prog. interval timer (UPD71054)	3.95	3.59
52716	8254-2	24	Prog. interval timer (10MHz)	5.95	5.39
52396	82C54	24	Prog. interval timer (CMOS)	3.95	3.59
52409	82C54-2	24	Prog. interval timer (CMOS) 10MHz	3.95	3.59
52724	8255★	40	Prog. periph. I/O (PPI) 71055 (2MHz)	3.95	3.59
52732	8255A-5★	40	Prog. periph. I/O (PPI) 5MHz	4.95	4.49
52417	82C55A	40	Prog. periph. I/O (PPI) CMOS	3.95	3.59
52425	82C55A-5	40	Prog. periph. I/O (PPI) CMOS (5MHz)	3.95	3.59
52759	8256	40	Multif. universal asynch. rec./trans.	19.95	17.95
52775	8259	28	Prog. interrupt controller (UPD71059)	1.49	1.25
52783	8259-5	28	Prog. interrupt controller (8259A-2)	1.95	1.75
52804	8274	40	Multi-protocol serial controller (7201)	4.95	4.49
52821	8275	40	Prog. CRT controller	9.95	9.49
52839	8279	40	Prog. keyboard/display interface	8.95	7.95
52847	8279-5	40	Prog. keyboard/display interface (5MHz)	9.95	8.95
52855	8282	20	Octal latch (UPD71082)	4.95	4.49
52863	8283	20	Octal latch inverts input data at outputs	2.95	2.25
52871	8284A	18	Clock gen. and driver (UPD71084)	3.95	3.59
52898	8286	20	Octal bus transceiver (UPD71086)	2.95	2.75
52901	8287	20	Octal bus transceiver (inverted)	9.95	8.95
52919	8288	20	Bus controller (UPD71088) 82C88-2	2.95	1.95
52951	8564	48	VIC (video interface chip for C128)	.39	.25
53006	8741	40	8-bit univ. peripheral interface (EPROM)	6.95	5.95
53014	8742	40	8-bit univ. peripheral interface	9.95	8.95
53022	8748	40	CPU 8-bit, EPROM, RAM and I/O (21V)	12.95	11.95
53031	8748H	40	CPU 8-bit, EPROM, RAM and I/O HMOS (21V)	15.95	13.95
53057	8749H	40	MPU 8-bit (EPROM version 8049)	19.95	17.95
53073	8751	40	CPU w/ 4Kx8 EPROM & 128x8 RAM (3.5-8MHz)	18.95	15.95
53081	8751H	40	CPU w/ 4Kx8 EPROM & 128x8 RAM (1.2-12MHz)	24.95	21.95
52978	87C51	40	CPU w/ 4Kx8 EPROM & 128x8 RAM(3.5-12MHz)CMOS	19.95	17.95
53090	8755	40	16K EPROM with I/O	7.95	5.95
135571	ST486DX2-66	168/PGA	33MHz 486 speed doubler CPU (SGS)	29.95	26.95
118421	80486DX2-66	168/PGA	33MHz 486 speed doubler CPU (Intel)	39.95	34.95
172486	486DX2-66	168/PGA	66Mhz 486DX2-66 (3.45VDC)	29.95	26.95
172494	486DX2-80	168/PGA	80MHz 486DX2-80 (4VDC)	34.95	31.49
151600	AM486DX4-100	168/PGA	100MHz Am486DX4 CPU (AMD) (pulls)	39.95	34.95
125495	Pentium® 100	296/PGA	100MHz Pentium® MPU	29.95	26.95
130825	Pentium® 120	296/PGA	120MHz Pentium® MPU	39.95	34.95
130833	Pentium® 133	296/PGA	133MHz Pentium® MPU	44.95	39.95
130841	Pentium® 166	296/PGA	166MHz Pentium® MPU	59.95	54.95
140054	Pent. MMX® 200	376/PGA	200MHz Pentium MMX® MPU	69.95	62.95
150501	Pent. MMX® 233	376/PGA	233MHz Pentium MMX® MPU	79.95	69.95
151651	Pentium® II 300	—	300MHz Pentium® II MPU	129.95	119.95
180793	Pent. PRO® 166	376/PGA	166MHz Pentium PRO® MPU	129.95	119.95

9000 Series Microprocessors

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
53663	9368	16	FND 70 driver/latch	$4.95	$3.95
10567	AM9513APC	40	System timing controller	39.95	32.95

V20 Chips

Dual-In-Line Package

34340	UPD70108-5	40	(5MHz) V20 chip (replaces the 8088)	$2.95	$2.25
34358	UPD70108-8	40	(8MHz) V20 chip (replaces the 8088-2)	8.95	7.95

A/D and D/A Converters and Controllers

Dual-In-Line Package

10145	ADC0803LCN	20	8-bit A/D converter (±1/2 LSB)	$6.95	$5.95
10153	ADC0804LCN★	20	8-bit A/D converter (1 LSB)	2.19	1.95
10170	ADC0808CCN	28	8-bit A/D converter with 8-ch. analog	5.95	5.39
10188	ADC0809CCN★	28	8-bit A/D converter (8-ch. MPX)	2.95	2.75
10209	ADC0817CCN	40	8-bit A/D converter (16-ch. MPX)	9.95	8.95
10225	ADC0820CCN	20	8-bit hi-spd. A/D conv. with track/hold	4.95	4.49
116100	ADC0831CCN	8	8-bit A/D converter with multiplexer	1.95	1.75
14904	DAC0800LCN	16	8-bit D/A converter (±1 LSB)	1.79	1.59
14912	DAC0806LCN	16	8-bit D/A convtr. (±1 LSB) MC1408P6	1.49	1.29
14947	DAC0808LCN★	16	8-bit D/A converter (MC1408P8)	1.49	1.29
14963	DAC0830LCN	20	8-bit µP D/A converter (.05% Lin.)	5.95	5.39
14971	DAC0831LCN	20	8-bit µP D/A converter (.10% Lin.)	5.95	5.39
128186	DAC0832LCN	20	8-bit µP D/A conv. dbl. buff. (20% Lin.)	3.95	3.59
14980	DAC1222LCN	18	12-bit D/A converter (.20% Lin.)	9.95	8.95

Math Coprocessors

51941	80387-33	68PGA	33MHz math coprocessors	$27.95	$24.95
76531	80387-25SX	68PLCC	25MHz math coprocessors	27.95	24.95

EPROMs

Dual-In-Line Package

39909	2708	24	1K x 8	8K	450ns (+5V, -5V, +12V)	$3.95	$2.95
33591	TMS2532A	24	4K x 8	32K	450ns (21V)	3.95	2.95
33611	TMS2716	24	2K x 8	16K	450ns (+5V, -5V, +12V)	2.25	1.49
40002	2716★	24	2K x 8	16K	450ns (25V)	3.25	2.95
39706	27C16	24	2K x 8	16K	450ns (25V) CMOS	5.95	5.49
114876	2732B	24	4K x 8	32K	450ns (12.5V)	4.95	4.49
40096	2732★	24	4K x 8	32K	450ns (25V)	4.95	4.49
40109	2732A-20★	24	4K x 8	32K	200ns (21V)	5.95	5.39
40125	2732A-25	24	4K x 8	32K	250ns (21V)	4.95	4.49
40133	2732A-45	24	4K x 8	32K	450ns (21V)	3.95	3.59
39765	27C32	24	4K x 8	32K	450ns (25V) CMOS	4.95	4.49
40192	2764-20★	28	8K x 8	64K	200ns (21V)	5.95	5.39
40205	2764-25★	28	8K x 8	64K	250ns (21V)	4.95	4.49
40230	2764A-20★	28	8K x 8	64K	200ns (12.5V)	3.95	3.59
40248	2764A-25★	28	8K x 8	64K	250ns (12.5V)	3.25	2.95
105304	27C64-12	28	8K x 8	64K	120ns (12.5V) CMOS	5.95	5.39
39829	27C64-15★	28	8K x 8	64K	150ns (12.5V) CMOS	4.95	4.49
74608	27C64-20	28	8K x 8	64K	200ns (12.5V) CMOS	4.25	3.75
39845	27C64-25	28	8K x 8	64K	250ns (12.5V) CMOS	3.95	3.59
39992	27128OTP†	28	16K x 8	128K	250ns (21V)	1.95	1.75
39933	27128-25★	28	16K x 8	128K	250ns (21V)	5.95	4.95
39950	27128A-15	28	16K x 8	128K	150ns (12.5V)	4.49	3.95
39968	27128A-20★	28	16K x 8	128K	200ns (12.5V)	4.25	3.75

†One Time Programmable See EPROM programmers on page 140 & 141

We can special order any ICs – 100 piece minimum

We carry major manufacturers – call for pricing on quantities over 100.

EPROMs (Continued)

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
39984	27128A-25★	28	16K x 8 128K 250ns (12.5V)	$3.95	$3.59
87935	27C128-12	28	16K x 8 128K 120ns (12.5V) CMOS	3.95	3.59
39677	27C128-15★	28	16K x 8 128K 150ns (12.5V) CMOS	3.75	3.49
101101	27C128-20	28	16K x 8 128K 200ns (12.5V) CMOS	3.49	3.25
39685	27C128-25	28	16K x 8 128K 250ns (12.5V) CMOS	3.25	2.95
40037	27256-15★	28	32K x 8 256K 150ns (12.5V)	5.49	4.95
40045	27256-20★	28	32K x 8 256K 200ns (12.5V)	4.49	3.95
40061	27256-25	28	32K x 8 256K 250ns (12.5V)	3.49	3.19
140476	27C256-70	28	32K x 8 256K 70ns (12.5V) CMOS	5.95	5.39
112740	27C256-10	28	32K x 8 256K 100ns (12.5V) CMOS	5.75	5.25
65904	27C256-12	28	32K x 8 256K 120ns (12.5V) CMOS	5.25	4.75
39714	27C256-15★	28	32K x 8 256K 150ns (12.5V) CMOS	4.95	4.49
39722	27C256-20★	28	32K x 8 256K 200ns (12.5V) CMOS	4.49	3.95
39731	27C256-25★	28	32K x 8 256K 250ns (12.5V) CMOS	4.25	3.75
40150	27512-20	28	64K x 8 512K 200ns (12.5V)	2.95	2.75
40168	27512-25★	28	64K x 8 512K 250ns (12.5V)	2.75	2.55
175206	27C512-90	28	64K x 8 512K 90ns (12.5V) CMOS	7.95	6.95
131959	27C512-10	28	64K x 8 512K 100ns (12.5V) CMOS	5.95	5.39
39773	27C512-12★	28	64K x 8 512K 120ns (12.5V) CMOS	5.75	5.25
39781	27C512-15★	28	64K x 8 512K 150ns (12.5V) CMOS	5.49	5.09
39790	27C512-20	28	64K x 8 512K 200ns (12.5V) CMOS	4.95	4.49
39802	27C512-25★	28	64K x 8 512K 250ns (12.5V) CMOS	4.75	4.39
118148	27C1024-15	40	64K x 16 1024K 150ns (12.5V) CMOS	4.75	4.39
137701	27C010-45	32	128K x 8 1024K 45ns (12.5V) CMOS	6.95	6.25
146149	27C010-70	32	128K x 8 1024K 70ns (12.5V) CMOS	6.95	6.25
137699	27C010-80	32	128K x 8 1024K 80ns (12.5V) CMOS	5.75	5.25
79231	27C010-10	32	128K x 8 1024K 100ns (12.5V) CMOS	5.49	5.09
74624	27C010-12	32	128K x 8 1024K 120ns (12.5V) CMOS	5.25	4.75
39651	27C010-15★	32	128K x 8 1024K 150ns (12.5V) CMOS	4.95	4.49
39669	27C010-20	32	128K x 8 1024K 200ns (12.5V) CMOS	4.75	4.39
156267	27C020-10	32	256K x 8 2048K 100ns (12.5V) CMOS	6.95	6.25
78852	27C020-12	32	256K x 8 2048K 120ns (12.5V) CMOS	6.59	5.95
65699	27C020-15★	32	256K x 8 2048K 150ns (12.5V) CMOS	6.25	5.75
65681	27C020-20	32	256K x 8 2048K 200ns (12.5V) CMOS	5.95	5.39
127933	27C4096-12	40	256K x 16 4096K 120ns (12.5V) CMOS	6.95	6.25
111780	27C040-10	32	512K x 8 4096K 100ns (12.5V) CMOS	8.95	7.95
102293	27C040-12	32	512K x 8 4096K 120ns (12.5V) CMOS	8.49	7.49
85462	27C040-15	32	512K x 8 4096K 150ns (12.5V) CMOS	7.95	6.95
156275	27C080-10	32	1M x 8 8000K 100ns (12.5V) CMOS	16.95	15.95
140003	27C080-12	32	1M x 8 8000K 120ns (12.5V) CMOS	15.95	14.95
156283	27C160-10	42	2M x 8 16000K 100ns (12.5V) CMOS	24.95	22.95

See EPROM programmers on page 140 & 141

EPROM Accessories

Part No.	Product No.	Description	1	10
16820	EWC1	1.1" x .5" EPROM window covers (56 labels)	$1.95	$1.75
13864	CF2	Conductive foam (12" x 24" x .25") hard black	7.95	6.95
66042	DE1	UVP portable EPROM eraser (pg 140)	59.95	53.95
15712	DE4	8-chip UV-EPROM eraser (pg 140)	119.95	109.95
132468	SEP81AE	1 socket 16K-8MB E(E)PROM programmer	249.95	224.95

EEPROMs

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
108839	24C02P	8	256 x 8 2048-bit serial (CMOS)	$.79	$.69
108847	24C04P	8	512 x 8 4096-bit serial (CMOS)	1.19	1.09
74691	28C16A-25	24	2K x 8 16K 250ns (5V) CMOS	3.95	3.59
40416	2817A-25	28	2K x 8 16K 250ns 5V read/write	6.95	6.25
40459	2864A	28	8K x 8 64K 250ns 5V R/W (N/C on P1)	6.95	6.25
74827	28C64A-25	28	8K x 8 64K 250ns (5V) CMOS	3.95	3.59
40475	2865A	28	8K x 8 64K 250ns 5V Rd/Wr (RDY/BSY on P1)	3.95	3.25
74843	28C256-15	28	32K x 8 256K 150ns CMOS	9.95	8.95
74878	28C256-25	28	32K x 8 256K 250ns CMOS	8.95	7.95
102058	93C46	8	64 x 16 1024-bit serial (5V)	.59	.49
108855	93C56	8	128 x 16 2048-bit serial (5V)	.69	.59

PROMs

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
27844	N82S23	16	32 x 8 256-bit PROM (OC)	$4.95	$4.49
27764	N82S123	16	32 x 8 256-bit PROM tri-state	5.95	5.39
27772	N82S126	16	256 x 4 1024-bit PROM (OC)	6.95	6.25
27781	N82S129	16	256 x 4 1024-bit PROM tri-state (27S21)	4.95	4.49
27799	N82S131	16	512 x 4 2048-bit PROM tri-state	6.95	6.25
27801	N82S137	18	1024 x 4 4096-bit PROM tri-state	3.95	3.59
27810	N82S181	24	1024 x 8 8192-bit bipolar PROM tri-state	6.95	5.95
27836	N82S191	24	2048 x 8 16,384-bit PROM tri-state	5.95	5.39
48531	74S188	16	32 x 8 Open collector (27S18)	4.95	4.49
48696	74S287	16	256 x 4 Tri-state (TBP24S10N)	5.95	5.39
48717	74S288	16	32 x 8 Tri-state (27S19/TBP18S030N)	2.49	2.25
48805	74S387	16	256 x 4 Open collector (TBP24SA10N)	4.95	4.49
48864	74S472	20	512 x 8 Tri-state high speed (TBP28S42N)	7.95	6.95
48910	74S571	16	512 x 4 Tri-state (27S13)	6.95	6.25
48928	74S573	18	1024 x 4 Tri-state (27S33)	2.95	2.75

PALs and GALs

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
28020	PAL16L8	20	Octal 16-input AND-OR-INVERT gate array	$2.49	$2.25
28038	PAL16R8	20	Octal 16-input reg. AND-OR gate array	.79	.69
88399	16V8-10*	20	10ns (replaces PALs listed below) .3"W	2.25	1.95
37452	16V8-15*	20	15ns (replaces PALs listed below) .3"W	1.19	1.09
37461	16V8-25*	20	25ns (replaces PALs listed below) .3"W	1.09	.99
88292	20V8-10**	S-24	10ns (replaces PALs listed below) .3"W	2.95	2.75
38658	20V8-15**	S-24	15ns (replaces PALs listed below) .3"W	2.25	1.79
38666	20V8-25**	S-24	25ns (replaces PALs listed below) .3"W	1.75	1.39
123801	22V10-10	S-24	10ns (replaces PALs listed below) .3"W	4.95	4.49
39159	22V10-15	S-24	15ns (replaces PALs listed below) .3"W	4.49	3.95
39167	22V10-25	S-24	25ns (replaces PALs listed below) .3"W	3.49	3.25

GALs are electrically erasable PLDs that can be used in place of numerous PALs

* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6,16RP8

** Replaces PALs: 14H8, 14L8, 14P8, 16H6, 16L6, 16P6, 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

IC Projects Book (1997)



Prompt Publishing IC projects was written for hobbyists and technicians who are interested in projects for integrated circuits – projects that you will be able to breadboard quickly and test easily. (212 pages)
• Size: 6.0" x 9.0" • Weight: 0.7 lbs.

Part No.	Description	1	10
143271	IC Projects Book (1997)	$24.95	$22.49

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PEEL Devices (CMOS)

Dual-In-Line Package

Programmable Electrically Erasable Logic (PEEL) devices allow for superset replacement of over 40 standard 20-pin and 24-pin PLDs (PAL, GAL, EPLD, etc.). They also offer additional architectural features so more logic can be put into every design.

Part No.	Product No.	Pins	Description	1	10
105953	18CV8P-25	20	PLD superset 12 config. I/O pins (8) 25ns	$2.25	$1.95
105996	22CV10AP-25	24	PLD superset 4/12 config. I/O pins (10) 25ns	3.95	3.59

LOGICAL DEVICES, INC. CUPL Software



CUPL Software is one of the worlds most popular and comprehensive PLD/FPGA Design Software systems, with over 20,000 users. CUPL is designed as a universal programmable logic development system. CUPL is a very versatile and powerful logic compiler that can be used to create simple or even very sophisticated logic designs for PLD's and FPGA's. CUPL runs either in DOS or in a DOS prompt within the Microsoft® Windows® environment. Supports 75 of the most popular PAL , GAL and PROM architectures (ep3xx, ep3xxx, ep6xx, ep6xxx, g16, g20, g22, p10, p12, p14, p16, p18, p20, p22, ra5, ra8, ra9, ra10, ra11, ra12, ra13).

Part No.	Description	Wt. (lbs.)	1	5
132880	PAL expert, version 5.0 (75 devices)	2.7	$179.95	$159.95

Static RAMs

Dual-In-Line Package

Part No.	Product No.	Pins	Description		1	10
38738	2016-12	24	2K x 8	120ns (AM9128-12)	$1.95	$1.75
38746	2016-20	24	2K x 8	200ns (MB8128-20)	1.75	1.55
38754	2018-35	24	2K x 8	35ns 0.3" wide	1.95	1.75
38931	2111-1	18	256 x 4	500ns (AM9111APC)	1.39	1.09
38957	2114N	18	1K x 4	450ns (9114BPC)	1.49	1.39
38973	2114N-2	18	1K x 4	200ns (9114EPC) (U214D20)	1.75	1.55
38981	2114N-2L	18	1K x 4	200ns low power	1.95	1.75
39061	2148HN-3	18	1K x 4	55ns (4K) static RAM	1.69	1.49
25911	MK48Z02B-15	24	2K x 8	150ns (16K) zero-power RAM	8.95	7.95
42198	5101★	22	256 x 4	450ns (CMOS)	5.95	5.39
42788	6116P-1	24	2K x 8	100ns (16KB) CMOS	1.69	1.49
42796	6116P-2	24	2K x 8	120ns (16KB) CMOS	1.59	1.39
42809	6116P-3	24	2K x 8	150ns (16KB) CMOS	1.49	1.29
42737	6116LP-1	24	2K x 8	100ns (16KB) LP CMOS	2.19	1.95
42745	6116LP-2	24	2K x 8	120ns (16KB) LP CMOS	2.09	1.89
42753	6116LP-3	24	2K x 8	150ns (16KB) LP CMOS	1.95	1.75
42921	6264P-10	28	8K x 8	100ns (64KB) CMOS	2.39	2.19
42930	6264P-12★	28	8K x 8	120ns (64KB) CMOS	2.29	2.09
85121	6264LP-70	28	8K x 8	70ns (64KB) LP CMOS	2.95	2.75
42884	6264LP-10	28	8K x 8	100ns (64KB) LP CMOS	2.75	2.49
42892	6264LP-12	28	8K x 8	120ns (64KB) LP CMOS	2.49	2.25
43238	6514	18	1K x 4	350ns CMOS (M58981P)	2.95	2.75
41970	43256-10L	28	32K x 8	100ns low power (NEC)	4.95	4.49
41988	43256-12L	28	32K x 8	120ns low power (NEC)	4.49	3.95
82472	62256LP-70	28	32K x 8	70ns low power CMOS	4.95	4.49
42833	62256LP-10★	28	32K x 8	100ns low power CMOS	3.95	3.59
42850	62256LP-12	28	32K x 8	120ns low power CMOS	3.75	3.49
172101	6285128LP-50	32	128K x 8	50ns low power CMOS	13.95	12.95
131810	628128LP-70	32	128K x 8	70ns low power CMOS	12.95	11.95
103982	628128LP-85	32	128K x 8	85ns low power CMOS	11.95	10.95
157358	628512LP-70	32	512K x 8	70ns low power CMOS	19.95	18.95

Fast SRAMs

Dual-In-Line Package

Part No.	Product No.	Pins	Description		Price
109073	ATT7C199P-12	28	32K x 8	12ns high speed CMOS (.3"W)	$2.95
75037	ATT7C199P-15	28	32K x 8	15ns high speed CMOS (.3"W)	2.75

Flash Memory

Dual-In-Line Package

74632	28F256-20	32	32K x 8	200ns (12V) CMOS	$5.95
74771	28F010-15	32	128K x 8	150ns (12V) CMOS	6.95
74835	28F020-15	32	256K x 8	150ns (12V) CMOS	6.95

Dynamic and Video RAMs

41339	4116-15	16	16K x 1	150ns (MM5290J-1R)	$.99
41662	4164-150	16	64K x 1	150ns (MCM6665-15)	.69
41371	41256-100	16	256K x 1	100ns (HY53C256LS-10)	.99
41398	41256-120	16	256K x 1	120ns (MB81256-12)	.75
41427	41256-150	16	256K x 1	150ns (P21256-15)	.69
41574	41464-10	18	64K x 4	100ns (HY53C464S-10)	1.49
41582	41464-12	18	64K x 4	120ns (MB81464-12)	1.25
172945	41464-15	18	64K x 4	150ns	.75
42219	511000P-10	18	1M x 1	100ns (M5M4C1000-10)	1.95
105460	514256P-60	20	256K x 4	60ns (HY514256P-60)	2.95
93374	514256P-70	20	256K x 4	70ns (TC514256P-70)	2.75
42315	514256P-80	20	256K x 4	80ns (UPD424256-80)	2.49
42294	514256P-10	20	256K x 4	100ns (TMS44C256-10)	2.25
128688	HM514260	SOJ	256K x 16	70ns	3.95
148435	256X16-60	SOJ	256K x 16	60ns EDO	3.59

Memory Modules

130729	JEEDO7208	72	2M x 32	60ns SIMM EDO module (8MB)	$15.95
130711	JEEDO7216	72	4M x 32	60ns SIMM EDO module (16MB)	49.95
148443	JEEDO7232	72	8M x 32	60ns SIMM EDO module (32MB)	79.95
75133	P361000-XX-6	72	1M x 36	60ns SIMM module (4MB)	12.95
75096	P362000-XX-6	72	2M x 36	60ns SIMM module (8MB)	24.95
75213	P362000-XX-7	72	2M x 36	70ns SIMM module (8MB)	23.95
75184	P364000-XX-6	72	4M x 36	60ns SIMM module (16MB)	44.95
75168	P364000-XX-7	72	4M x 36	70ns SIMM module (16MB)	43.95
148460	8MBX36-60	72	8M x 36	60ns SIMM module (32MB)	79.95
148398	4MBX64SDRAM	168	4M x 64	10ns Synch. DRAM DIMM (32MB)	49.95
148401	8MBX64SDRAM	168	8M x 64	10ns Synch. DRAM DIMM (64MB)	79.95
148419	16MBX64SDRAM	168	16M x 64	10ns Synch. DRAM DIMM (128MB)	129.95
41751	421000A9B-70	30	1M x 9	70ns SIMM module	3.95
53698	94000S-60	30	4M x 9	60ns SIMM module	14.95
53701	94000S-70	30	4M x 9	70ns SIMM module	13.95
53719	94000S-80	30	4M x 9	80ns SIMM module	12.95
148478	16MBX9-60	30	16M x 9	60ns SIMM module	34.95

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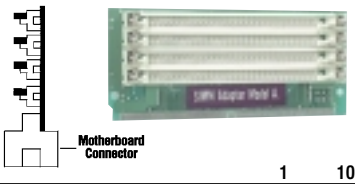
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SIMM to SIMM Converter Card

- Converts (4) 30-pin SIMMs to (1) 72-pin SIMM
- Memory size and speed must match
- Easy release locking clips
- Weight: 0.1 lbs.



Part No.	Product No.	Description	1	10
157500	30/72A	(4) 30-pin SIMMs to 72-pin SIMM	$7.95	$6.95

ANALOG DEVICES Analog Devices

Dual-In-Line Package

Part No.	Product No.	Pins	Description	1	10
115158	AD558JN	16	Microprocessor compat. 8-bit DAC	$19.95	$17.95
115174	AD620AN	8	Low cost instrument amplifier	17.95	15.95
115182	AD633JN	8	Low cost analog multiplier	12.95	11.95
115318	OP27GP	8	Low noise prec. op amp (-40˚C to 80˚C)	1.95	1.75

Individual spec sheets available for all above devices ($1.00 each)

Dallas Semiconductor Chips

Dual-In-Line Package

114198	DS1210	8	Nonvolatile controller chip	$3.95	$3.59
114219	DS1213C	28	SmartSocket 64K/256K bit	13.95	12.95
133410	DS1216C	28	Smartwatch/RAM 64K/256K	20.95	18.95
114260	DS1220Y-150	24	16K nonvol. SRAM 10%pwr, 4.25V WP	9.95	8.95
114278	DS1225AB-150	28	64K nonvol. SRAM 5%pwr, 4.62V WP	12.95	10.95
114286	DS1225AD-150	28	64K nonvol. SRAM 10%pwr, 4.37V WP	11.95	10.95
157307	DS1225D-100	28	64K nonvol. SRAM 10%pwr, 4.5V WP	10.95	9.95
114307	DS1225Y-200	28	64K nonvol. SRAM 10%pwr, 4.25V WP	13.95	12.95
177113	DS1230Y-100	28	256K nonvol. SRAM 10%pwr, 4.37V WP	18.95	16.95
114323	DS1230Y-150	28	256K nonvol. SRAM 10%pwr, 4.37V WP	17.95	15.95
114331	DS1232	8	Micromonitor chip	2.75	2.55
133444	DS1286	28	Watchdog timekeeper (50-Byte RAM)	14.95	13.95
76646	DS1287	24	Real time clock with RAM (MC146818A)	5.95	5.39
114366	DS1287A	24	Real time clock with RAM & clear	6.95	6.25
176778	DS1302	8	Trickle charge time keeping IC	2.49	2.25
114374	DS1387	24	RAMified real time clock 4Kx8	8.95	7.95
114382	DS1620	8	Digital thermometer and thermostat	5.49	4.95
133452	DS12887	24	Real time clock chip	6.95	6.25
114403	DS80C320-MCG	40	High speed micro 25MHz	11.95	10.95

Individual spec sheets available for all above devices ($1.00 each)

Epson Real Time Clock Modules

Dual-In-Line Package

RTC58321B Specifications



- Frequency stability: ±50ppm
- Built-in 32.768kHz quartz crystal
- Addressable counter start, stop, and reset function
- 12 or 24-hour format • Automatic leap year setting
- Microprocessor compatible 4-bit data bus • Standard 16-pin DIP package

Part No.	Product No.	Description	1	10	100
29591	RTC58321B	16-pin clock module	$7.95	$6.95	$5.95

RTC72421B Specifications

- Frequency stability: ±50ppm
- The built-in quartz crystal makes board design easy
- Direct bus-compatibility (120 nsec access time) • Interrupt masking
- 30 seconds error adjustment function • 18-pin dual in-line plastic package

Part No.	Product No.	Description	1	10	100
95530	RTC72421B	18-pin clock module	$6.95	$5.95	$5.59

MICROCHIP CMOS PIC Microcontrollers

Dual-In-Line Package

Part No.	Product No.	Pins	Conf.	Range	EPROM Bytes	RAM Bytes	I/O Lines	1	10	100
145040	PIC12C508-04/P	8	OTP	4MHz	512 x 12	25B	5	$1.75	$1.49	$1.25
145058	PIC12C509/JW	8	EPROM	4MHz	1K x 12	41B	5	12.95	11.95	10.95
144258	PIC12C509-04/P	8	OTP	4MHz	1K x 12	41B	5	1.95	1.75	1.49
128338	PIC16C54A-04/P	18	OTP	4MHz	512 x 12	25B	12	2.95	2.75	2.49
134172	PIC16C56-RC/P	18	OTP	20MHz	1K x 12	25B	12	3.75	3.49	3.25
134181	PIC16C57/JW	28	EPROM	20MHz	2K x 12	72B	20	13.95	12.95	11.95
145091	PIC16C74A/JW	40	EPROM	20MHz	14K x 14	192B	33	21.95	19.95	17.95
145111	PIC16F84-04/P	18	Flash	4MHz	1K x 14	68B	13	5.95	5.49	4.95
145120	PIC16F84-10/P	18	Flash	10MHz	1K x 14	68B	13	6.25	5.75	5.39
176882	PIC16F877-20/P	40	Flash	20MHz	256 x 8	368B	33	9.49	8.49	7.49

KAE Servo and Stepper Motor Controllers

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port. Complete documentation, Windows® example software and technical support is available from J R KERR Automation Engineering web site: "www.jrkerr.com".



146472

146472: PIC-SERVO Motion Control Chipset for DC Motors

- PID servo control for DC motors with digital encoders
- 32-bit position, velocity, and acceleration resolution
- PWM and direction outputs connect to servo amplifier
- Two chip set (PIC-SERVO 28-pin and PIC-ENC 18-pin)



175901

175901: PIC-STEP Motion Control Chip for Stepper Motors

- Acceleration ramping in position and velocity mode
- 50,000 steps/second maximum step rate
- Step and direction outputs connect to full step, half step or microstepping drivers



175898

175898: PIC-I/O General Purpose I/O Controller Chip

- 12 general purpose TTL I/O bits
- Three 8-bit analog inputs
- Two pulse-width-modulated outputs

Part No.	Description	Pins	1	10	25
146472	PIC-SERVO chip set, 0.3" DIP	28/18	$34.95	$31.49	$27.95
175901	PIC-STEP chip, 0.3" DIP	28	24.95	23.95	22.95
175898	PIC-I/O chip, 0.3" DIP	28	20.95	19.95	18.95

HOLTEK Encoders/Decoders

Dual-In-Line Package

Part Number	Product Number	Pins	Description	1	10	100
123730	HT12E	18	Encoder 12-bit	$1.69	$1.49	$1.25
123748	HT12D	18	Decoder 8-bit address / 4-bit data	1.69	1.49	1.25
126594	HT640	24	Encoder 10-bit address / 8-bit address/data	2.95	2.75	2.49
126607	HT648L	24	Decoder 10-bit address / 8-bit latch data	2.95	2.75	2.49

e-lab Digital Engineering, Inc. E-Lab Digital Interface ICs

Dual-In-Line Package

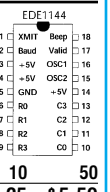
Stepper Motor Drivers

These stepper motor drivers are designed to interface a logic level input byte to a stepper motor. Unipolar and bipolar versions.

Part No.	Product No.	Pins	Description	1	10	50
141532	EDE1200	18	Unipolar stepper motor driver	$8.95	$7.95	$6.95
157526	EDE1204	18	Bipolar stepper motor driver	8.95	7.95	6.95

Keypad Encoder

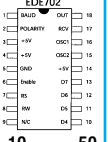
This Keypad Encoder IC is designed to interface a matrix type 4 row x 4 column (16 key or less) keypad to a microcontroller or other host processor. A one wire serial or 4 wire parallel interface returns the key press data and can be used in conjunction with a "data valid" signal for polled or interrupt-driven applications.



Part No.	Product No.	Pins	Description	1	10	50
171969	EDE1144	18	Keypad Encoder	$6.95	$6.25	$5.59

Serial LCD Interface

This Serial LCD Interface IC has been designed to provide a cost-effective LCD control solution for a wide variety of embedded designs. Allows nearly any-text based LCD module to be controlled via a simple one-wire data link.



Part No.	Product No.	Pins	Description	1	10	50
171951	EDE702	18	Serial LCD Interface	$8.95	$7.95	$6.95

We carry major manufacturers – call for pricing on quantities over 100

Princeton Technology Controller ICs

An infrared remote control transmitter utilizing CMOS technology, capable of 18 functions and a total of 75 commands

Part No.	Product No.	Pins	Description	1	10	100
173041	PT2248	16	IR remote control transmitter	$1.95	$1.75	$1.49

An infrared remote control receiver utilizing CMOS technology, capable of controlling 18 functions. A remote control system can be constructed using this chip and the PT2248 (P/N 173041).

Part No.	Product No.	Pins	Description	1	10	100
173059	PT2250A	24	IR remote control receiver	$1.95	$1.75	$1.49

An electronic volume controller IC utilizing CMOS technology specially designed for use on audio equipment. It has 2 built-in channels making it ideally suitable for mono and stereo sound applications. Provides the loudness function, wide frequency response range, and very low total harmonic distortion.

Part No.	Product No.	Pins	Description	1	10	100
173024	PT2256	16	Electronic volume controller	$1.95	$1.75	$1.49

A silicon gate CMOS-processed digital echo IC functionally compatible with M50195P. Input signal to this chip is converted to digital signal with A-D conversion and then stored in the memory (DRAM) chip. After a certain delay time, the digital signal is read out from the memory chip and then converted back into analog signal using the D-A conversion.

Part No.	Product No.	Pins	Description	1	10	100
173032	PT2395	40	Enhanced digital echo	$7.95	$6.95	$5.95

A high performance electronic fan controller LSI. Speed control, off-timer, rhythm wind, sleep mode, head swing and/or light control are all built into a single chip. Indicator LED output, buzzer output, key with control output, as well as remote control decoding circuitry are all provided to build a full function electronic fan with remote control.

Part No.	Product No.	Pins	Description	1	10	100
173016	PT2128A-C81	24	Remote fan controller	$1.95	$1.75	$1.49

80C52-BASIC Microcontroller

The 80C52-BASIC chip is a custom-masked 80C52 microcontroller with a full-featured 8K-byte ROM-resident BASIC-52 interpreter.

Hardware: • On-chip oscillator and clock circuit
• Operates DC to 12MHz • 256 x 8-bit RAM

Software: • Full BASIC interpreter in ROM on a single chip
• "Stand-alone" software development
• Interrupts can be handled by BASIC or Assembly Language

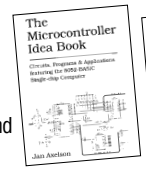


Part No.	Product No.	Description	1	10	50
125647	80C52BASIC	CPU 8-bit CMOS w/ BASIC interpreter	$19.95	$17.95	$15.95

The 8052 Microcontroller Idea Book (1997) and BASIC-52 Reference Book (1997)

126375:
• Circuits, programs and applications featuring the 8052-BASIC single chip computer
• 277 pages • Size: 7.8" x 10.5" • Weight: 1.6 lbs.

126252:
• Complete reference to programming 80C52-BASIC and 8052AH-BASIC microcontrollers
• 167 pages • Size: 8.2" x 10.6" • Weight: 1.0 lb.



126375



126252

Part No.	Product No.	Description	1	10	50
126375	8052BASIC	Microcontroller Idea Book	$31.95	$28.95	$25.95
126252	BK52	BASIC-52 Programming Reference	22.95	19.95	17.95

Software Disk for BASIC-52 Book

• 3.5" disk of circuit examples for P/N 126252 • Weight: 1.0 lb.

Part No.	Product No.	Description	1	10	25
126295	SFT52	BASIC-52 3.5" disk	$9.95	$8.95	$7.95

Plastic IC Storage Tubes & Rubber Rail Stops

• See page 104 for complete specs

✳ Prepackaged: please order in increments of 10 or 100

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10	100
29516	RIC20	Thin plastic rail	.04	$.49	$.39	$.29
29524	RIC220	Wide plastic rail	.07	.49	.39	.29
29583	RRS	Rubber stop	.001	✳	.05	.04



29583

29524

Voice Chips

Dual-In-Line Package



Single-Chip Voice Record/Playback Devices

10 to 240 SECOND DURATIONS (28-pin DIP)



107334

• Easy-to-use single-chip voice record solution
• Single voltage operation • +5V (4.5V to 5.5V operating range)
• Manual switch or microprocessor controllable
• Playback can be edge- or level-activated • Directly cascadable for longer durations
• Zero-power message storage – eliminates battery backup circuits
• Automatic power-down (push-button mode) • P/N 141647: 3VDC @ 30mA
• 1 µA standby current (typical) • Fully addressable to handle multiple messages
• 100-year message retention (typical) • 100K record cycles (typical)
• On-chip automatic gain control (AGC) • On-chip clock source

Part No.	Product No.	Description	1	10	50
141671	ISD1110P	Voice record/playback (10 sec.)	$4.95	$4.49	$3.95
107334	ISD1420P	Voice record/playback (20 sec.)	5.95	5.39	4.95
120643	ISD2560	Voice record/playback (60 sec.)	9.95	8.95	7.95
120660	ISD2590	Voice record/playback (90 sec.)	9.95	8.95	7.95
141655	ISD25120P	Voice record/playback (120 sec.)	9.95	8.95	7.95
141647	ISD33240P	Voice record/playback (240 sec.)	12.95	11.95	10.95

National Semiconductor Digitalker™ Chip Set & Accessories



Applications: Language translations, telecommunications, clocks, teaching aids and automotive
The DT1050 is a standard DIGITALKER™ Chip Set encoded with 137 separate and useful words, 2 tones and 5 different silence durations. • Weight: 0.1 lbs.

16491 includes: • (1) 74LS04 (14-pin)
• (1) Speech Processor Chip, MM54104N (40-pin) • Master Word List
• (2) Speech ROMs, MM52164SSR1 (24-pin) and MM52164SSR2 (24-pin)
• The recommended schematic diagram is included on the application sheet

16504 includes: • (1) 74LS04 (14-pin)
• (2) Speech ROMs, MM52164SSR5 (24-pin) and MM52164SSR6 (24-pin)

Part No.	Product No.	Description	1	10
16491	DT1050	Digitalker™ (4 chips)	$29.95	$26.95
16504	DT1057	Vocabulary expansion (3 chips)	19.95	17.95
26147	MM54104N	Speech chip	19.95	17.95
14592	CY4	Required 4MHz crystal	.79	.69

MingMicro Digital Voice Module



• 1M DRAM on board • Plays 16 messages
• Selectable 16K/32K/44K bps sampling rate
• 0.5W audio amp on board with volume control
• All components soldered on board
• Power requirements: 6-12VDC, 200mA (P/N 100095 pg 87)

Part No.	Product No.	Description	Weight	1	10	25
124871	DVM58D	Digital voice module	0.5 lbs.	$79.95	$71.95	$63.95

Video Text Display Module

NTSC composite (1Vp-p, 75Ω)



• Serial data input: 2400~19.2Kbps
• Operating voltage: 12VDC @ 65mA typical (unregulated)
• Auto-switching genlock overlay or internal video generation
• Power supply: +8~16VDC @ 65mA input, 5VDC aux. output (regulated)
• Displays up to 308 characters (11 lines of 28) • 12 x 18 pixel character pattern
• Compatible w/ Parallax Basic Stamp® • 30-pin SIMM for factor (socket supplied)
• Asychronous serial input only @ 9600bps • Size: 3.5"L x 1.1"H • Wt.: 0.3 lbs.

Part No.	Product No.	Description	1	10	25
162051	BOBII	Video text display module	$79.95	$71.95	$63.95

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SX Blitz Programmer

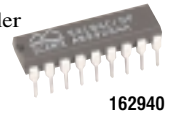


- Type Ctrl-R from the SX Key software and your code assembles, downloads, and executes in your project
- SX software provides a simple and powerful SX Parallax mnemonics assembly language development environment
- Includes: SX Blitz, software, code and documentation on diskette, sample SX18AC/DP
- Size: 1.8"L x 0.5"W (DE-9 connects to serial cable, other end into project) • Weight: 0.1 lbs.

Part No.	Parallax No.	1	10
162958	45170	$59.95	$54.95

50MIPS SX Microcontrollers

SX18AC/DP and SX28AC/DP



162940

The fastest 8-bit microcontroller in the world. Runs at an amazing 50 million instructions per second.

Features:

- Single cycle instruction execution
- 2048 x 12 bits E2/Flash program memory rated for 10,000 rewrite cycles
- Supports in-system debugging and programming
- Internal R4 MHz R/C oscillator

Part No.	Parallax No.	1	10
162940	SX18AC/DP (18-pin DIP pkg)	$5.25	$4.75
162931	SX28AC/DP (28-pin DIP pkg)	5.25	4.75

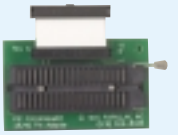
Tech Tools PIC16C5X / XX Programmer Pack

(Version 5.0, Windows® Software)

Programs, reads & verifies PIC16CXX devices!



168807



133911

- Supports PICs: 54, 55, 56, 57, 58, 620, 621, 622, 61, 62, 63, 64, 65, 71, 72, 73, 74 and 84
- Requires 40-pin ZIF adapter (P/N 133911 – below)
- Programmer can be upgraded and adapters available depending on PIC
- Requires IBM PC or compatible, serial port and Windows® operating system
- Includes PIC writer programming module, PIC writer serial protocol adapter, modular data cable, 12VAC @ 500mA power supply, PIC writer installation diskette, and Tech Tools CD-ROM
- Documentation on CD-ROM • Wt: 1.8 lbs.

Part No.	Description	1	10
168807	PIC16CXX prog. pack	$199.95	$179.95
133911	40-pin ZIF adapter	49.95	44.95

Industrial Control Parts and Text



Methods of process control (on-off, differential gap, proportional-integral-derivative) are demonstrated in detail using a simple desktop heater system consisting of a film canister with a temperature sensor (LM34 probe) and a heat (1/2 Watt 47 ohm resistor).

- 26 piece kit
- Size: (book) 7.6" x 8.5" • Weight: 1.2 lbs.

Part No.	Parallax No.	Price
176575	28156	$44.95

Board of Education

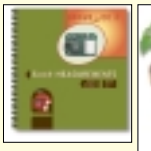


Features:

- Mechanically interlocked power supply prevents dual connection of wall-pack and battery
- DE9 connector for BS2-IC programming and serial communication during run-time
- BS2-IC P0 - P15 I/O pins, Vdd and Vss connections brought adjacent to 2" x 1 3/8" breadboard area
- Includes set of ten (10) color-coded pluggable 22 gauge wires
- Traces on top of the board show connections between BS2-IC and breadboard connections
- Requires the BS2-IC module (sold separately see opposite page P/N 130892 & 159775)
- Size: 4.0"L x 3.0"W • Weight: 0.2 lbs

Part No.	Parallax No.	1	10
162536	28150	$59.95	$53.95

Earth Measurements





In this set of experiments you will build a complete light, air temperature, ground temperature data logger. You'll also learn how to control a water pump in a closed-loop feedback system.

- Module board not included

Part No.	Parallax No.	1	10
170106	28153	$64.95	$59.95

BASIC Analog and Digital



Designed to provide you with an overview of the concepts involved in converting analog signals into digital data that the BASIC Stamp can understand. The experiments include Basic Analog to Digital Conversion, BASIC Digital to Analog conversion, Advanced Analog to Digital Conversion, Digital control of Analog Devices, and Analog Input Signal Conditioning.

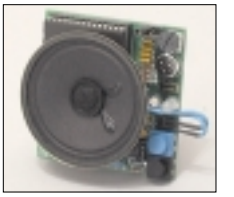
- Module board not included

72 Piece Part Kit Includes :

- Leds (4), resistors (33), potentiometers (2), tack switches (2), capacitors (4), photo-resistors (2), jumper wires (20), ICs (3) and piezo speakers (2)

Part No.	Parallax No.	1	10
170122	28155	$39.95	$35.95

Sound Module Appkit



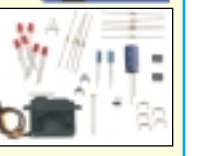
The sound module is a small recording and playback studio, with an 8KHz bandwidth. Up to 60 seconds of sound may be recorded on this device, either as one message or several discrete messages. Eight messages are allowed and may be individually recorded and played back using a BASIC Stamp or any other intelligent device capable of RS-232 communication.

- Size: 2.5"L x 2.5"W x 1.0"H • Weight: 0.3 lbs.

Part No.	Parallax No.	Price
176591	29111	$89.95

What's A Microcontroller? Student Workbook and Parts Kit





Features:

- Introductory programming to blink a LED, and activate blinking LEDs with buttons
- Control a servo motor using a photoresistor as an input
- Implementing a 555 timer to off-load tasks from the BASIC Stamp

Microcontroller Book

- Book contains schematic, pictorials and explanation of six projects
- Size (book): 7.7" x 8.8" • Weight: 0.4 lbs.

32-Piece Parts Kit

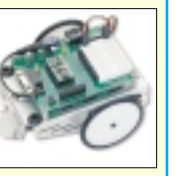
32 pc. Kit

- Components required for six projects described in Microcontroller Book
- Difficulty level: beginner • Weight: 0.4 lbs.
- Module board not included

Part No.	Parallax No.	1	10
171264	28152	$39.95	$36.95

Robotics Kit and Book





Build a BOE-BOT by adding a chassis, servo motors, a power supply, and proximity sensor to your Board of Education. Experiments cover basic programming and servo control, sensor interfacing using an infrared LED and receiver, light following, and communication between BOE-BOTs.

- Requires BS2 starter kit (P/N 140071, pg 19)

Part No.	Parallax No.	1	10
170131	28154	$109.95	$99.95

GrowBot Kit

BASIC Stamp II – Controlled Robot



Features:

- Intermediate level
- Standard I/O devices include a bumper, photo-resistor light sensors, a piezo speaker, LED lights, and servo drivetrain

Difficulty Level Intermediate

50 pc. Kit

- Another way to learn how to use a BASIC Stamp II
- Includes BS2-IC module, software, and documentation • Module board not included
- Size: 5.5"L x 3.0"W x 3.0"H • Weight: 1.5 lbs.

Part No.	Parallax No.	1	10
162501	29100	$199.95	$179.95

SX Tech Tool Kit

Includes:



- SX-Key Rev. F, SX Tech board, SX-Key manual, (2) SX8AC/DP chips, (1) 50MHz resonator, 7.5VDC @ 1A power supply, serial cable, software and source code on CD-ROM
- Size: (book) 7.6" x 8.5" • Weight: 2.3 lbs.

Part No.	Parallax No.	Price
176583	45180	$149.95

PARALLAX BASIC Stamp AppKits


146430

Parallax AppKits include the materials and parts you need to learn about interfacing electronic devices to BASIC Stamp I and II computers and PIC microcontrollers. Each kit contains the sample device and supporting parts and source code written for BASIC Stamps and PICs.

• Weight: 0.2 lbs. • One-year warranty

Part No.	Parallax No.	1	10
146456	27917	$24.95	$22.49
146430	27915	24.95	22.49
146448	27916	24.95	22.49

PARALLAX Stamp Activity Board



The BASIC Stamp acitvity board is a demonstration board for Parallax BASIC Stamp computers (BS1-IC and BS2-IC modules). Sample source code is included.

- Four push buttons let you simulate inputs
- Four LED's indicate the status of the outputs
- 32Ω speaker outputs frequencies: 500 to 8KHz
- Potentiometer gives you analog output
- A/B sockets support many 8-pin DIP ICs including: EEPROMs, ADCs, digital thermometers, etc.
- X-10 interface via RJ11 connection
- Supports BS1-IC and BS2-IC
- Includes manual, power supply, and sample source code diskette • One-year warranty
- PCB size: 4.0"L x 2.8"W • Weight: 0.7 lbs.

Part No.	Parallax No.	1	10
149032	27905	$79.95	$71.95

SOLUTIONS CUBED RAM Pack B Module



The RAM Pack B module allows addressable access to 8Kbx8 bits of RAM. An autobaud detect function supports communication at 1200-19200 baud rates without the use of hardware jumpers. A software command allows the RAM Pack B to be expanded to handle 32Kbx8 RAM. An additional FIFO (first-in-first-out) buffer mode has been included. This function allows sequential storage of data in RAM without the need to address the RAM. RAM comes socketed for easy replacement with NVRAM or 32Kbx8 RAM.

• Weight: .04 lbs.

Part No.	Description	1	10
143811	6-pin RAM Pack B module	$29.95	$26.95

SOLUTIONS CUBED Motor Mind B Module

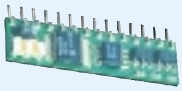


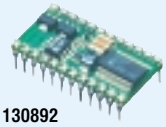
Motor control is simplified to a one or two line serial comm unication stream. DC motors with operating voltages as great as 30VDC and continuous currents of 2A can be controlled. An on board frequency counter has a range of 0-65, 528Hz. Motor speed (254 steps) and direction can be controlled. Motors with tachometers or encoders may make use of the automated speed control function.

• Weight: .03 lbs.

Part No.	Description	1	10
143802	9-pin motor mind B module	$29.95	$26.95

PARALLAX BASIC Stamps


127693


130892


140071

BASIC Stamps are small computers using a variation of BASIC, called PBASIC to control execution of many applications. The BS1-IC has 8 I/O lines, while the BS2-IC has 16 I/O lines which can be connected directly to buttons, LEDs, registers, and many other TTL level devices. Each allows you to store data in the EEPROM before down-loading a BASIC program. Thousands of BASIC Stamps are in use by hobbyists and professionals!

- Circuitry includes a BASIC interpreter, EEPROM (non-volatile), a resonator and 5V regulator
- Embedded BASIC plus instruction sets

See page 36 for Serial LCD Modules

Specifications:	BS1-IC (127693)	BS2-IC (130892)
EEPROM	256 bytes	2048 bytes
RAM	14 bytes	26 bytes
Max. prog. length	80 instructions	500 instructions
Clock speed	4MHz	20MHz
Program speed	2000/sec.	4000/sec.
Max I/O speed	2400 baud	50K byte
Package	14-pin SIP	24-pin DIP
PC Interface	Parallel	Serial
Size	1.4"L x 0.4"W	1.2"L x 0.6"W

140062: BASIC Stamp®1 Starter Kit w/ BS1-IC (27205)
Design your project today using the BASIC Stamp 1. Includes a BS1-IC, super carrier board, manual, software and programming cable.

140071: BASIC Stamp®2 Starter Kit w/ BS2-IC (27203)
Take advantage of all the cool features of the BASIC Stamp 2. Includes the BS2-IC, super carrier board, manual, software & programming cable.

Part No.	Parallax No.	Wt. (lbs.)	1	10
127693	BS1-IC	0.01	$34.95	$31.49
130892	BS2-IC	0.01	49.95	44.95
140062	27205	2.2	99.95	94.95
140071	27203	1.9	149.95	134.95

SOLUTIONS CUBED Pocket Watch B Module



The Pocket Watch B module is an enhanced, pin for pin replacement of the Solutions Cubed Pocket Watch. It contains a real time clock, a calendar, and advanced timing features. The real-time clock module keeps track of seconds, minutes, hours, days, months, and years. Adjustments for leap year are automatically performed. A year 2000 fix allows for worry free use into the next millennium.

- For use with P/N 130892 (above)
- Leap year compensation
- Easy to use 1 or 2 wire interface
- Four types of user configurable alarms
- Externally accessible, precision timebase
- Standard TTL levels • Easy to use SIP package
- Size: 1.0"L x 1.0"W • Wt.: .05 lbs. • One-year warranty

Part No.	Description	1	10
145630	Pocket watch B module	$24.95	$22.49

PARALLAX 50MHz BASIC Stamp IISX Module



Parallax used the new Scenix Semiconductor SX microcontroller to add power to their popular BS2-IC module. Features:

- Execution of 10,000 PBASIC instructions per second (2.5X the speed of the BS2-IC)
- 2 x 8K bytes of EEPROM (16K bytes total) to handle a total of 4,000 lines of code
- The BS2SX-IC is pin-compatible with the BS2-IC and executes a superset of instructions
- Size: 1.2"L x 0.6"W • Weight: 0.01 lbs.

Part No.	Parallax No.	1	10	25
159775	BS2SX-IC	$59.95	$56.95	$49.95

PARALLAX Stamp Module Carrier Boards


164726

Optional boards for BS1-IC, BS2-IC and BS2SX-IC stamps.

- Easy use of stamp with prototyping area, 9-volt battery clips, I/O header, reset button, and programming connector
- Weight: 0.1 lbs.

130921: Use w/ P/N 130892 (left) • 3.0"L x 2.6"W
164726: Use w/ P/N 127693, 130892 (left) and P/N 159775 (above) • 4.0"L x 3.0"W

Part No.	Parallax No.	1	10
130921	27120	$19.95	$18.95
164726	27130	29.95	26.95

IRBY ELECTRONICS Stamp II I/O Test Board



- Compatible w/ P/N 130921 (above)
- 16 pull down resistors
- 16 low current LEDs
- 16 miniature switches for I/O pins
- 16 DIP switches for latching I/O to high state
- No separate power required
- Size: 4.1"L x 2.1"H
- Weight: 0.1 lbs.

Part No.	Description	1	10
158107	Stamp II I/O test board	$59.95	$54.95

SOLUTIONS CUBED MEMKEY 4x5 Keypad Encoder Module (Serial and PC/AT)



- For 4x5 matrix keypads
- PC/AT or serial output
- Standard TTL levels
- 64 bytes of user accessible EEPROM
- Programmable rows & columns
- Programmable key values
- Programmable debounce and typematic times
- Automatic or polled key reporting
- No external components and easy to use SIP package
- For use with P/N 130892 BS2-IC (left above)
- Compatible with keypad P/N 160071 (pg 45)
- Size: 2.3"L x 1.6"W • Weight: .0.2 lbs.

Part No.	Description	1	10
163758	Keypad encoder module	$34.95	$31.95

We carry major manufacturers – call for pricing on quantities over 25.

CircuitMaker® (Version 6.0) and TraxMaker Software (Version 3.0)

- System requirements: IBM or higher compatible, 32MB of RAM, 20MB of hard disk space, CD-ROM drive, VGA card or higher compatible, mouse

125591: CircuitMaker



125591

- Professional schematic design software that uses SPICE based simulation to simulate analog, digital and mixed-signal circuits
- Library of 4,000 plus device models
- 6 analysis and 8 virtual instrument functions
- Tightly integrate with Traxmaker (P/N 139301)

139301: TraxMaker

- Professional PCB layout program with no auto router
- Use with CircuitMaker (P/N 125591) for a complete design system
- Multi-pass gridded auto router
- Supports up to 8 layers
- Fully documented library of 2,000 footprints
- Output gerber files, NC drill files
- Prints to any Windows – selectable printer/plotter
- Import PCB netlists in CircuitMaker, Protel or Tango formats

Part No.	Description	Wt. (lbs.)	1	5
125591	CircuitMaker® Simulation Software	1.6	$279.95	$259.95
139301	TraxMaker Simulation Software	2.7	279.95	259.95

WinBOARD PCB Layout / WinDRAFT Schematics Software



- Minimum system requirements: 486/DX2, 10MB hard drive space, 8MB RAM, SVGA (800 x 600)
- Support up to 450 pin designs

142973: WinBOARD PCB Layout Software

- Supports 16 layers with multiple copper pours

142981: WinDRAFT Schematics Software

"…still one of the most flexible, best featured, and economical schematic capture programs on the market suitable for professional use." — Desktop Engineering

Part No.	Description	Wt. (lbs.)	1	10
142973	WinBOARD Electronic PCB CAD	1.6	$149.95	$134.95
142981	WinDRAFT Electronic Schematic CAD	1.6	149.95	134.95

EDWin NC / EDWin 2000 Electronics CAD/CAE Software

A special license for home users, students, educational establishments and businesses wishing to evaluate the system. EDWin runs in Windows® 9X/NT and is fully integrated.

Version 1.7



164831

- System requirements: 486 or higher compatible, Windows® 9X/NT, min.100MB hard drive space, 16MB of RAM, SVGA color monitor, graphics controller card and mouse
- Library editor: 15,000+ device models library
- Mixed-mode simulation: diagram generator
- Schematic capture: autorouting, autopackaging and autocheck
- Postprocessing: Gerber 274D, 274X, NC drill, pick and place
- Layout design (28 layers): autorouting, autoplacement and autocheck

P/N 181892: 500 device library; 100 component database

Part No.	Description	1	5
164831	EDWin NC (CAD/CAE) Deluxe 3 Software	$199.95	$179.95
163045	EDWin NC V1.70 Upgrade	39.95	36.95
181892	EDWin 2000 Basic	299.95	279.95
182001	EDWin EDSPICE module (for P/N 181892)	89.95	80.95
181981	EDWin thermal analyzer (for P/N 181892)	34.95	31.49
181999	EDWin auto-router (for P/N 181892)	59.95	53.95

GLOBAL SPECIALTIES® Protolab 4.0 Software

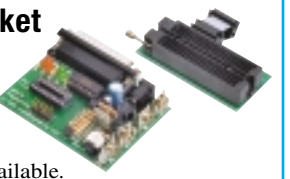
A low-cost circuit design and simulation software designed for Microsoft® Windows® 95. Create and edit analog circuits on your PC while you choose from a list of active and passive components. Includes pre-designed circuits and analysis tool such as...oscilloscope, voltmeter, ammeter, ohmmeter or watt meter.



- System requirements: IBM PC 386; 4MB RAM, SVGA graphics, Windows® 3.1 or 95
- Includes 3.5" diskette and basic instructions

Part No.	Description	Wt. (lbs.)	1	10
150682	Protolab 4.0 Software	0.06	$49.95	$44.95

microEngineering Labs EPIC Pocket PIC Programmer Plus



The pocket-sized EPIC Plus Programmer quickly and easily programs most PICmicro microcontrollers. Basic programmer includes an 18-pin socket for programming 8, 14 and 18-pin PICmicro MCUs. ZIF adapters also available.

- Simple hardware installation with parallel-port (printer) interface
- Interactive software for Windows® 9x/NT/2000 and DOS
- Command line operation for automated, non-interactive programming
- PICmicro Macro Assembler software included
- Requires two 9V batteries or AC adapter

Part No.	Description	Wt. (lbs.)	1	10
132679	EPIC pocket PIC programmer	0.20	$59.95	$53.95
136397	8/18-pin ZIF adapter	0.07	34.95	31.95
132610	40/28-pin ZIF adapter	0.10	34.95	31.95
154763	In-circuit programming adapter	0.08	59.95	53.95

microEngineering Labs PICBasic Compiler and PICBasic Pro Compiler


132661

PICBasic converts your BASIC programs into files that can be programmed directly into a PICmicro MCU. Compatible with most PICmicro MCU programmers.

- Use in DOS or Windows®
- In-line assembler and Call support

PICBasic Compiler:

- Serial speeds to 9600 baud
- May use up to 2K of code space

PICBasic Pro Compiler:

- Direct and library routine access to any pin or register
- Automatic page boundary handling past 2K
- Built-in LCD support
- MPLAB / MPASM / ICE compatability

Part No.	Description	1	5
132661	PICBasic compiler: Basic Stamp 1 compat. instruction set	$89.95	$79.95
150543	PICBasic pro compiler: Basic Stamp 1 & 2 compat. inst. set	239.95	214.95

microEngineering Labs PICX1 Experimenter's Module Board



Pre-assembled experimenter's platform that provides an assembled testbed containing most of the circuitry commonly used with MCUs.

- Includes: 40-pin ZIF socket, 5V regulator, 16 switch keypad, reset button, jumper selectable oscillator from 4MHz to 20MHz, (3) potentiometers, LED bargraph, 2 line x 20 character LCD module, speaker, (2) RC servo connectors, RS232 interface, RS485 interface socket, 12C serial EEPROM socket, SPI serial socket, real time clock/serial analog to digital converter socket, Dallas 1620/1820 temperature IC socket, EPIC in-circuit programming connector and wiring for Microchip in circuit debug connector

Part No.	Description	Size (L" x W")	1	5
169113	PIC-X1 Experimenter/Lab Board	5.4 x 5.6	$209.95	$199.95
176903	PIC-X1K Experimenter/Lab Board Kit	—	139.95	132.95

microEngineering Labs "PICProto" Prototyping Boards



- High quality blank prototyping boards for PICmicro microcontrollers
- Large prototyping area
- Holds microcontroller, 5V regulator, oscillator, capacitors andDB9-25 connector
- Includes documentation sheet with schematic, suggested parts and placement

Part No.	Description	Size (L" x W")	Wt. (lbs.)	1	10
132636	PICProto 3	3.0 x 3.0	0.1	$14.95	$13.49
• For 8 pin PIC12C508/509/671/672 • Solder mask					
136400	PICProto 8	2.0 x 1.2	0.1	$9.95	$8.95
• For all 18-pin PICs including PIC16C52, 54, 56, 58, 554, 558, 61, 620, 621, 622, 71, 710, 711, 712, 715, 716, 84, 16CE623, 624, 625, 16F627, 628, 83, and 84					
132644	PICProto 18	3.0 x 1.5	0.03	$9.95	$8.95
176891	PICProto 18L	3.6 x 4.1	0.10	19.95	17.95
• For 18-pin PICs including PIC16C84 and 16F84 • Includes wiring for 2 DIP switch banks, resistors and socket to jump to a solderless breadboard					
150535	PICProto S1	2.1 x 1.9	0.02	$14.95	$13.49
• For both 18-pin PICs including PIC16C52, 54, 56, 58, 554, 556, 558, 61, 620, 621, 622, 71, 710, 711, 715, 83, 84 and 28-pin PIC16C55 and 57 • Accepts either standard 0.6"W 28-pin device or 0.3"W skinny DIP					
132628	PICProto Dual 18/28	3.0 x 3.0	0.05	$14.95	$13.49
• For 40-pin PIC16C64, 65, 67, 74 and 77					
132652	PICProto 64	4.0 x 3.0	0.1	$16.95	$14.95

JAMECO PLCC Prototype Adapters

PLCC socket mounted on a circuit board for easy wire wrap or design prototyping. Solder masked PCB with .25" long leads.



73550

- PCB construction
- Silk screen numbers identify pin numbers in groups of 5 and 10
- Tin plated PLCC connector
- PLCC socket identifies pin 1 and orientation key
- PLCC socket slotted for PLCC chip remover
- Gold plated round pins • Weight: 0.1 lbs.

Part No.	Pins	Size (L x W)	1	10	100
73533	28	1.4" x 1.1"	$5.95	$5.35	$4.95
73541	44	2.3" x 1.6"	9.95	8.95	7.95
73550	68	3.4" x 1.6"	14.95	13.49	11.95
73568	84	4.3" x 1.9"	19.95	17.95	15.95

AMS PCI Bus Extender Card



- PCI Bus
- Extends life of motherboard connectors
- Gold plated finger for long life
- Access to all components
- Size: 5.9"L x 5.4"W
- Weight: 0.4 lbs.

Part No.	Description	1	10
141381	PCI bus extender card	$69.95	$59.95

BestProto ISA Prototyping Board

AT/ISA Protoboard



- Can accommodate a PGA package with a 31x31mm footprint
- (21) 1206 surface mount bypass capacitor sites and (142) unconnected sites
- Includes signal definition chart
- Size: 8.2"L x 4.2"W
- Weight: 0.2 lbs.

Low noise power and ground planes

Part No.	Description	1	10	25
136469	AT/ISA protoboard	$29.95	$26.95	$23.95

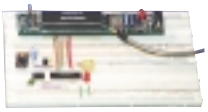
AMS PCI Bus Prototype Board



- All plated through holes
- 0.1" hole spacing
- 50 Mil power and ground grinds
- Provision for wire wrap and bypass caps
- Impedance matched to bus specifications
- Easy access to every signal on the bus
- Size: 12.4"L x 5.0"W • Weight: 0.6 lbs.

Part No.	Description	1	10
141372	PCI prototype bus board	$69.95	$59.95

RMV electronics Inc M1 Engine Serial DAC Interface



- Easy to use ASCII commands
- 24 digital I/O, TTL compatible
- Fits on a breadboard for prototyping data acquisition and control projects
- Embedded functions including PWM, period measurement and stepper motor control
- 32-bit DLL and OCX for rapid application development

Part No.	Description	1	10
127204	Serial port DAC interface kit	$49.95	$44.95

RMV electronics Inc M2 Engine Serial DAC Interface

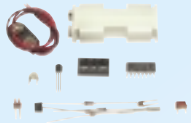


- 24 – digital I/O, TTL compatible
- Serial port connection: RJ-45 (8P8C)
- Serial interface: RS232 (9600 to 115200) software selectable
- Serial peripheral interface port: 3-wires (serial clock, data input, data output)
- Analog to digital converter: 2 channels, 0 to 5V, 10-bit
- Fits breadboards for prototyping data acquisition, and control projects • Size: 4.6"L x 1.1"W
- To send or receive data in either decimal, hexadecimal, or binary formats • Weight: 0.5 lbs.
- Period measurement between 50 and 100,000
- Includes 3.5" manual and demo software on 3.5" diskette and interface cable with adapter

Part No.	Description	1	10
173382	Compukit for breadboards	$69.95	$62.95

Control Technology Programmable Controllers

Self-contained development/debug system: easy to write and debug code on controller. Controller uses a PC computer serial port and communication program (supplied). Two RS-232 serial ports with data buffers and DB-9 connectors. Four external interrupts for instant response with commands for service routines EPROM or Flash memory programmable on-board for non-volatile code storage with AutoStart.



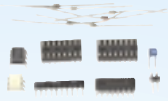
176461



176452



176858



176479



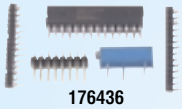
177471



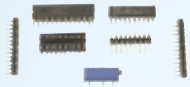
176487



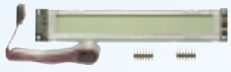
176444



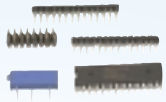
176436



176428

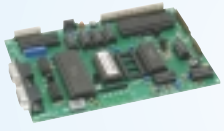


176840



176410

ViTRAX Plus Controller



176399

- Optimized interpreter
- 80 commands
- 24 digital I/O lines
- Serial ports to 19.2K baud
- EPROM programmer and commands
- Power: +5VDC @ 200mA (recommend P/N 164101 below)
- Size: 4.5"L x 6.5"W

Optional modules:

- **176461:** RT clock
- **176858:** LCD 2x24
- **176436:** A/D: 10-bit 8 ch.
- **176840:** LCD 2x32

Part No.	Description	1	5
176399	ViTRAX controller	$124.95	$112.95
176461	RealTime clock	39.95	35.95
176436	Analog/digital converter	39.95	35.95
176858	LCD module 2x24	49.49	44.95
176840	LCD module 2x32	59.49	53.95
164101	Power supply (pg 81)	6.95	6.25
41970	Expansion memory (pg 13)	4.95	4.49

MultiTRAX Multitasking Controller



176381

- Multitasking compiler
- 106 commands
- 48 digital I/O lines
- Serial ports to 38.4K baud
- EPROM programmer and commands
- Power: +5VDC @ 250mA
- Size: 5.5"L x 6.5"W

Optional modules:

- **176452:** RT clock
- **176858:** LCD 2x24
- **176428:** A/D: 10-bit 8 ch.
- **176840:** LCD 2x32
- **176487:** 4x4 keypad

Part No.	Description	1	5
176381	MultiTRAX controller	$239.95	$219.95
176452	RealTime clock	39.95	35.95
176428	Analog/digital converter	39.95	35.95
176487	Keypad 4x4	59.95	53.95
176479	Pulse/event/freq. counter	49.95	44.95
176858	LCD module 2x24	49.49	44.95
176840	LCD module 2x32	59.49	53.95
164101	Power supply (pg 81)	6.95	6.25
41970	Expansion memory (pg 13)	4.95	4.49

FlashTRAX Controller



176372

- Tokenized interpreter
- 115 commands
- 24 digital I/O lines
- Serial ports to 19.2K baud
- FLASH programmer and commands
- Power: +5VDC @ 125mA
- Size: 4.3"L x 5.9"W

Optional modules:

- **176444:** RT clock
- **176410:** A/D: 10-bit 8 ch.
- **176858:** LCD 2x24
- **177471:** 4x4 keypad
- **176840:** LCD 2x32

Part No.	Description	1	5
176372	FlashTRAX controller	$169.95	152.95
176444	RealTime clock w/ batteries	49.95	44.95
176410	Analog/digital converter	39.95	35.95
177471	Keypad 4x4	59.95	53.95
176858	LCD module 2x24	49.49	44.95
176840	LCD module 2x32	59.49	53.95
164101	Power supply (pg 81)	6.95	6.25
41970	Expansion memory (pg 13)	4.95	4.49

For more information and specifications visit www.controlTrax.com

Kits include the Most Popular Components and Cabinets with extra drawers for your Customized Expansion



84996 (shown)

20 drawer component cabinet with every kit!

Each Kit includes a 20 Drawer Component Cabinet (81701), 20 clear plastic drawers (85454), 20 clear dividers (85446), 30 adhesive labels for drawers to identify parts in kit, all Electronic Components listed in each kit.

- Cabinet size: 6.0"L x 15.0"W x 7.9"H (81701)
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Cabinet: ABS-Black • Weight: 4.6 to 6.4 lbs.
- Cabinet is wall-mountable or free standing

Each Refill Package includes all Electronic Components listed in each kit, each group of Components separately packaged.

- Refill package does not include Cabinet (81701 – pg 104)

Just call 1-800-831-4242 when cabinet needs a refill



108433 (shown)

LEDs & LED Mounting Hardware Kit

$85 VALUE

See pages 32 & 33 for photos and specs

Includes 560 pcs. (20 types) LEDs and mounting hardware

10 each	10 each	10 each	10 each	100 each
BG209	BR5704	XC209G	XC556G	LMH100
BR209	CTP280	XC209Y	XC556Y	LMH200
BY209	HLMT-CL00	XC410G	XC5410	XC209R
BG5704	XC52RG	XC410R	XC5491	XC556R

Part No.	Description	Weight	1	10
84996	560 pc. LED & Hardware kit	5.0 lbs.	$59.95	$53.95
130438	Refill for 84996 (560 pc.)	0.3 lbs.	44.95	39.95

7400 Series IC Kit

$160 VALUE

Includes 350 pcs. (30 types) 7400 (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	10 each	20 each
7402	7416	7438	74107	74157	7400
7405	7417	7447	74123	74160	7404
7408	7420	7470	74132	74174	7406
7410	7430	7485	74151	74175	7407
7414	7432	7495	74153	74279	7474

84953	350 pc. 7400 series IC kit	6.2 lbs.	$129.95	$116.95

74LS00 Series IC Kit

$137 VALUE

Includes 420 pcs. (35 types) 74LS (TTL) Integrated Circuits

10 each	10 each	10 each	10 each	20 each
74LS05	74LS73	74LS125	74LS193	74LS00
74LS10	74LS75	74LS139	74LS240	74LS02
74LS11	74LS85	74LS151	74LS244	74LS04
74LS14	74LS86	74LS155	74LS245	74LS08
74LS20	74LS90	74LS157	74LS273	74LS32
74LS30	74LS93	74LS174	74LS373	74LS74
74LS47	74LS123	74LS175	74LS374	74LS138

84961	420 pc. 74LS series IC kit	6.7 lbs.	$109.95	$99.95
130391	Refill for 84961(420 pc.)	2.0 lbs.	94.95	85.95

CD4000 Series IC Kit (CMOS)

$99 VALUE

Includes 300 pcs. (25 types) CD4000 Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
CD4015	CD4024	CD4051	CD4093	CD4001
CD4016	CD4027	CD4069	CD4511	CD4011
CD4017	CD4040	CD4070	CD4538	CD4013
CD4020	CD4046	CD4071	CD4543	CD4049
CD4023	CD4050	CD4081	CD4584	CD4066

84970	300 pc. CD4000 series IC kit	6.1 lbs.	$79.95	$71.95
130403	Refill for 84970 (300 pc.)	1.4 lbs.	64.95	57.95

Linear Series IC Kit

$191 VALUE

Includes 480 pcs. (40 types) Linear Series Integrated Circuits

10 each	10 each	10 each	10 each	20 each
TL072CP	LM337T	LF412CN	ULN2803A	LM317T
TL074CN	LF353N	LMC555CN	NE5532	LM324N
TL082CP	LF356N	LM556N	7808T	LM339N
TL084CN	LM358N	LM723CN	78L12	LM741CN
MAX232CPE	LM386N-1	LM1458N	7815T	LM555CN
LM301N	LM386N-3	LM1488N	7905T	7805T
LM308N	LM393N	LM1489N	7912T	78L05
LM311N	LF411CN	ULN2003A	7915T	7812T

84988	480 pc. Linear series IC kit	6.0 lbs.	$169.95	$152.95
130411	Refill for 84988 (480 pc.)	1.3 lbs.	154.95	139.95

Low Profile IC Socket Kit

Includes 300 pcs. (10 types) Solder tail (Tin) IC Sockets

10 each	20 each	20 each	50 each	50 each
22LP	18LP	28LP	8LP	16LP
24SLP	24LP	40LP	14LP	20LP

85075	300 pc. LP IC Socket kit	5.5 lbs.	$34.95	$31.95

1/8 Watt Carbon Film Resistor Kit

$33 VALUE

Includes 540 pcs. (30 values) 1/8 watt 5% Resistors

10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	3.3KΩ	27KΩ	100Ω
47Ω	680Ω	5.1KΩ	33KΩ	220Ω
150Ω	1.5KΩ	5.6KΩ	47KΩ	1KΩ
270Ω	2KΩ	6.8KΩ	470KΩ	4.7KΩ
330Ω	2.2KΩ	15KΩ	1MegΩ	10KΩ
390Ω	2.7KΩ	22KΩ	10MegΩ	100KΩ

Part No.	Description	Weight	1	10
108329	540 pc. 1/8 watt Resistor kit	4.9 lbs.	$27.95	$24.95
108302	Refill for 108329 (540 pc.)	0.2 lbs.	12.95	24.95

1/4 Watt Carbon Film Resistor Kit

$32 VALUE

Includes 540 pcs. (30 values) 1/4 watt 5% Resistors

10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	2.7KΩ	22KΩ	100Ω
47Ω	680Ω	3.3KΩ	33KΩ	220Ω
150Ω	1.2KΩ	5.1KΩ	47KΩ	1KΩ
270Ω	1.5KΩ	5.6KΩ	470KΩ	4.7KΩ
330Ω	2KΩ	15KΩ	1MegΩ	10KΩ
390Ω	2.2KΩ	20KΩ	10MegΩ	100KΩ

81832	540 pc. 1/4 watt Resistor kit	4.9 lbs.	$27.95	$24.95
103165	Refill for 81832 (540 pc.)	0.2 lbs.	12.95	11.49

1/2 Watt Carbon Film Resistor Kit

$36 VALUE

Includes 540 pcs. (30 values) 1/2 watt 5% Resistors

10 each	10 each	10 each	10 each	50 each
10Ω	470Ω	3.3KΩ	27KΩ	100Ω
47Ω	680Ω	5.1KΩ	33KΩ	220Ω
150Ω	1.5KΩ	5.6KΩ	47KΩ	1KΩ
270Ω	2KΩ	6.8KΩ	470KΩ	4.7KΩ
330Ω	2.2KΩ	15KΩ	1MegΩ	10KΩ
390Ω	2.7KΩ	22KΩ	10MegΩ	100KΩ

107879	540 pc. 1/2 watt Resistor kit	5.1 lbs.	$29.95	$26.95
107852	Refill for 107879 (540 pc.)	0.4 lbs.	14.95	13.49

1/2 Watt Single Turn Cermet Pot Kit

See page 44 for photos and specs

$80 VALUE

Includes 100 pcs. (10 values) 1/2 watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
63P500	63P5K	63P500K	63P1K	63P50K
63P2K	63P20K	63P1Meg	63P10K	63P100K

85032	100 pc. single turn Pot kit	4.9 lbs.	$59.95	$53.95

3/4 Watt 15 Turn Cermet Pot Kit

See page 44 for photos and specs

$110 VALUE

Includes 100 pcs. (10 values) 3/4 watt Linear Taper Potentiometer

10 each	10 each	10 each	10 each	10 each
43P500	43P5K	43P500K	43P1K	43P50K
43P2K	43P20K	43P1Meg	43P10K	43P100K

85041	100 pc. 15 turn Pot kit	4.9 lbs.	$79.95	$71.95
130454	Refill for 85041 (100 pc.)	0.2 lbs.	64.95	58.95

Switch Assortment Kit

$121 VALUE

See pages 46-49 for photos and specs

Includes 150 pcs. (15 types) PB, Slide, Dip & Toggle Switches

10 each	10 each	10 each	10 each	10 each
206-4	JMT121	JMT223	MPC221	MS103
206-8	JMT123	MPC121	MPC223	SDTX620K
JMT113	JMT221	MPC123	MS102	SW153

85059	150 pc. Switch kit	5.0 lbs.	$89.95	$80.95

Hardware, Spacer and Standoff Kit

$77 VALUE

Includes 2500 pcs. (25 types) Spacers, Standoffs, Nuts, Flat, Tooth & Lock Washers and Slotted PH Screws

100 each Spacers	100 each Hex nuts	100 each Flat,	100 each Int. tooth,	100 each Split lock	100 each PH machine screws
2-56	2-56	—	—	#2	2-56 x 1/4, —
4-40	4-40	#4	#4	#4	4-40 x 1/4, 1/2
6-32	6-32	#6	#6	#6	6-32 x 1/4, 1/2
8-32	8-32	#8	#8	#8	8-32 x 3/8, 1/2

108433	2500 pc. Hardware kit	7.5 lbs.	$59.95	$53.95
130497	Refill for 108433 (2500 pc.)	2.7 lbs.	44.95	39.95

Ceramic Capacitor Kit

$39 VALUE

Includes 520 pcs. (10 values) 50v ±20% Ceramic Disc Capacitors

20 each	20 each	20 each	100 each	100 each
10pf	47pf	470pf	.022µf	.01µf
22pf	100pf	.001µf	.047µf	.1µf

Part No.	Description	Weight	1	10
81859	520 pc. Ceramic Cap. kit	5.0 lbs.	$29.95	$26.95
130232	Refill for 81859 (520 pc.)	0.3 lbs.	14.95	13.49

Monolithic Capacitor Kit

$42 VALUE

Includes 280 pcs. (10 types) 50v ± 20% Monolithic Ceramic Caps

10 each	10 each	10 each	10 each	100 each
22pf	.001µf	.047µf	.47µf	.01µf
100pf	.0022µf	.22µf	1µf	.1µf

171475	280 pc. monolithic cap kit	5.0 lbs.	$32.95	$29.95
171483	Refill for 171475 (280 pc.)	0.3 lbs.	17.95	15.95

Radial Capacitor Kit

$39 VALUE

Includes 240 pcs. (15 values) ±20% Radial Electrolytic Capacitors

10 each	10 each	20 each	20 each	20 each
100µf 50v	1000µf 16v	1µf 50v	3.3µf 50v	22µf 50v
220µf 25v	2200µf 25v	1µf 100v	4.7µf 50v	47µf 50v
470µf 25v	3300µf 25v	2.2µf 50v	10µf 50v	100µf 25v

81867	240 pc. Radial Capacitor kit	5.3 lbs.	$29.95	$26.95
130331	Refill for 81867 (240 pc.)	0.5 lbs.	14.95	13.49

Axial Capacitor Kit

$46 VALUE

Includes 140 pcs. (10 values) ±20% Axial Electrolytic Capacitors

10 each	10 each	10 each	20 each	20 each
47µf 50v	220µf 50v	1000µf 25v	1µf 50v	10µf 50v
100µf 50v	470µf 50v	2200µf 16v	4.7µf 50v	2.2µf 50v

81875	140 pc. Axial Capacitor kit	5.3 lbs.	$34.95	$31.49
130340	Refill for 81875 (140 pc.)	0.6 lbs.	19.95	17.95

Mylar Capacitor Kit

$48 VALUE

Includes 280 pcs. (10 values) 100v ±10% Mylar Capacitors

10 each	10 each	10 each	10 each	100 each
.001µf	.022µf	.047µf	.47µf	.01µf
.0047µf	.033µf	.22µf	1µf	.1µf

81883	280 pc. Mylar Capacitor kit	5.1 lbs.	$34.95	$31.49
130358	Refill for 81883 (280 pc.)	0.3 lbs.	19.95	17.95

Tantalum Capacitor Kit

$68 VALUE

Includes 150 pcs. (15 values) ±20% Dipped Tantalum Capacitors

10 each	10 each	10 each	10 each	10 each
.1µf 35v	1µf 25v	3.3µf 35v	10µf 16v	22µf 16v
.22µf 35v	1µf 35v	4.7µf 35v	10µf 35v	33µf 25v
.47µf 35v	2.2µf 16v	6.8µf 35v	15µf 25v	47µf 25v

81841	150 pc. Tantalum Cap. kit	4.8 lbs.	$49.95	$44.95
130260	Refill for 81841 (150 pc.)	0.3 lbs.	34.95	31.49

Diode Assortment Kit

$45 VALUE

See page 25 for photos and specs

Includes 420 pcs. (15 types) Zener, Switching and Silicon Rectifiers

10 each	10 each	10 each	10 each	100 each
1N270	1N4001	1N4735	1N5408	1N914
1N751	1N4007	1N4742	C106B1	1N4004
1N3600	1N4733	1N5404	KBP04M	1N4148

82587	420 pc. Diode kit	5.0 lbs.	$39.95	$35.95
130366	Refill for 82587 (420 pc.)	0.3 lbs.	24.95	22.49

Transistor Assortment Kit

$101 VALUE

See page 28 for photos and specs

Includes 560 pcs. (20 types) NPN, PNP Transistors

10 each	10 each	10 each	10 each	100 each
2N2222A	2N4401	MJE3055T	TIP31A	2N3904
2N2907A	2N4403	MPF102	TIP32A	2N3906
2N3053	2N5951	MPSA06	TIP102	PN2222
2N3055	2N7000	MPSA13	TIP120	PN2907

82595	560 pc. Transistor kit	5.1 lbs.	$79.95	$71.95
130374	Refill for 82595 (560 pc.)	0.4 lbs.	64.95	58.95

• LB grab bag quantities are approximate • Opened grab bags are not returnable • Use our 20 drawer cabinet w/ labels to store your components, P/N 81701 (pg 104)


135394 – Electrolytic


135271 – LEDs


169578– Photocells


18294 – Toy Motors


149649 – Fans


55968 – Spacers


81701 – Cabinet

Capacitors

Part No.	Product No.	Description (Photo Above)	Wt. (lbs.)	1	10
17857	GB100★	200 asst. ceramic disc capacitors	0.1	$3.95	$3.49
135335	GB100LB	1 lb. (985pcs) asst. ceramic disc caps	1.0	12.95	11.49
17881	GB101★	100 asst. mylar capacitors	0.2	4.95	4.49
135458	GB101LB	1 lb. (310pcs) asst. mylar capacitors	1.0	9.95	8.95
17911	GB102★	100 asst. electrolytic capacitors radial, axial, snap	0.4	4.95	4.49
135394	GB102LB	390 asst. electrolytic capacitors radial, axial, snap (photo above)	1.5	12.95	11.49
17945	GB103	100 asst. tantalum capacitors (dipped epoxy and solid tubular)	.02	6.95	6.25

Diodes and Transistors

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
17961	GB107★	200 asst. diodes (zener, switching, silicon)	0.1	$4.95	$4.49	$3.75
135440	GB107LB	1 lb. (1650pcs) asst. diodes (zener, switching, silicon)	1.0	17.95	15.95	13.95
18171	GB127★	100 asst. transistors (NPN, PNP, power)	0.2	4.95	4.49	3.75

Trimmer and Single Turn Potentiometers

Part No.	Product No.	Description	Wt. (lbs.)	1	10
18075	GB113★	100 asst. 1/10W to 1/8W trimmer pots (100 to 2MΩ values)	.05	$4.95	$4.25
18278	GB174	100 asst. 1/4W & 1/2W single turn pots (100 to 5MΩ asst. values)	0.2	5.95	5.39
135407	GB174LB	1 lb. (295pcs) 1/4W & 1/2W single turn pots (100 to 5MΩ asst. values)	1.0	12.95	11.49

Integrated Circuits & Sockets

Part No.	Product No.	Description	Wt. (lbs.)	1	10
17996	GB108★	100 asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	0.3	$6.95	$6.25
135280	GB108LB	1 lb. (400pcs) asst. 7400, 74LS00 series (74, 74C, 74F, 74S, 74ALS, 74HC, 74HCT)	1.0	14.95	13.95
18024	GB109	100 asst. linear series (LM300, 500, 700, 7800, 7900 regulators) DIP, TO-3, TO-220	0.4	6.95	6.25
145242	GB109LB	1 lb. (330pcs) asst. linear series (LM300, 500, 700, 7800, 7900 regulators)	1.0	14.95	13.95
114964	GB171	100 asst. microprocessor series (micros, PALS, RAMs, PROMS, EPROMs)	0.3	9.95	8.95
105620	GB120★	100 asst. IC sockets (DIP IC, PGA, TO-3)	0.2	4.95	4.49
135386	GB120LB	1 lb. (330pcs) asst. IC sockets (DIP IC, PGA, TO-3)	1.0	9.95	8.95

Surprise Component Grab Bag

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, connectors, sockets, thermistors, LEDs, resistor networks, diodes, IC's, standoffs, transistors, oscillator/resonators, inductors, crystals, resistors, pots and switches (1075 pcs).

Our Best Seller!



Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
135263	GB191LB★	Electronic components	3.0	$12.95	$11.49	$9.95

Surprise Computer Products Grab Bag

Best Bargain!



Hundreds of electronic components (capacitors, connectors, sockets, LEDs, resistors, diodes, IC's transistors, pots, oscillators/resonators, inductors, crystals, switches, etc.), cables, power supply, transformer, fan, PC board, keyboard and miscellaneous computer products.

Part No.	Product No.	Description	1	10
18331	GB190	Component/computer grab bag	$14.95	$13.49

Crystals/Oscillators

Part No.	Product No.	Description	Wt. (lbs.)	1	10
114446	GB150	50 asst. crystals and oscillators	0.2	$5.95	$5.35
135415	GB150LB	1 lb. (195pcs) asst. crystals & oscill.	1.0	14.95	13.49

LEDs and Displays

Part No.	Product No.	Description (Photo Above)	Wt. (lbs.)	1	10	25
18041	GB110★	100 asst. sizes and colored LEDs (T1/T1 3/4 round and rectangular)	0.1	$5.95	$5.35	$4.49
18323	GB186	500 asst. sizes #18041 LEDs	0.3	16.95	14.95	13.49
135271	GB110LB	1 lb. (1900pcs) asst. #18041 LEDs	1.0	39.95	35.95	29.95
18201	GB162★	50 asst. sizes of colored displays (7-segment LED, modules, stick)	0.3	7.95	6.95	6.25
135343	GB162LB	1 lb. (140pcs) asst. #18201 displays	1.0	16.95	14.95	13.49

1/4W, 1/2W Resistors and Photocells

Part No.	Product No.	Description (Photo Above)	Wt. (lbs.)	1	10
18104	GB116★	200 asst. 1/4 watt resistors (5%/10%)	0.1	$3.95	$3.49
135351	GB116LB	1 lb. (2200pcs) asst. 1/4 watt resistors	1.0	17.95	16.95
18139	GB117★	200 asst. 1/2 watt resistors (5%/10%)	0.2	4.95	4.49
169578	GB125	100 asst. sizes and values photocells	0.2	6.95	6.25

Switches, Toy Motors and Fans

Part No.	Product No.	Description (Photos Above)	Wt. (lbs.)	1	10
18235	GB165★	50 asst. switches (toggle, push button, rocker, slide)	0.4	$6.95	$6.25
135378	GB165LB	135 asst. #18235 switches	1.0	14.95	13.49
18294	GB182★	5 asst. toy DC motors (1.5 – 12VDC)	0.3	3.95	3.49
149649	GB193	5 asst. used AC/DC fans (photo above)	4.5	9.95	8.95

Hardware Assortments



• 2-56 • 4-40 • 6-32 • 8-32
• Screws • Nuts • Washers • Lock Washers
• Plastic • Steel • Brass • Aluminum

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
171571	GB149	1 lb. (500pcs) asst. types, screws, nuts, washers & lock washers	1.1	$4.95	$4.49	$3.95
171635	GB149LB	3 lbs. (1400pcs) asst. types same as P/N 171571 (above)	3.1	9.95	8.95	7.95

Spacers and Standoffs

• Round • Hex • Alum • Nylon • Brass

Part No.	Product No.	Description (Photo Above)	Wt. (lbs.)	1	10	25
166473	GB256	100 asst. size 2-56 spacers/standoffs	0.4	$6.95	$6.25	$5.59
166481	GB440	100 asst. size 4-40 spacers/standoffs	0.5	6.95	6.25	5.59
166490	GB632	100 asst. size 6-32 spacers/standoffs	0.6	6.95	6.25	5.59
166502	GB832	100 asst. size 8-32 spacers/standoffs	0.6	7.95	6.95	6.25
55968	GB140★	100 asst. sizes, 2-56, 4-40, 6-32, 8-32 round/hex, alum/brass/nylon spacers	0.4	7.95	6.95	6.25
135423	GB140LB	1 lb. (310pcs) same as P/N 55968	1.1	17.95	15.95	13.95

Schwab's School Selection

$48.55 Value



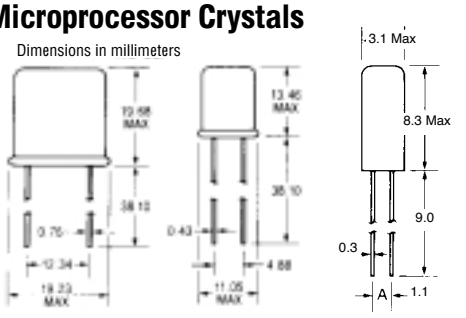
What's your suggestion?

Jameco's nine most popular component Grab Bags (highlighted on this page in blue) all individually bagged. Includes: ceramic and electrolytic capacitors, diodes, transistors, potentiometers, switches, LEDs, 1/4 W resistors, spacers and standoffs. Engineer Loren Schwab recommended this selection of products as a standard item. All components are individually bagged as shown in photo. He also recommends a 20 drawer component cabinet with labels (P/N 81701 photo above).

Part No.	Product No.	Description	Wt. (lbs.)	1	10
163213	GB197	Schwab's School Selection	3.3	$39.95	$34.95
81701	CAB20	20 drawer component cabinet	4.7	14.95	13.49

Microprocessor Crystals

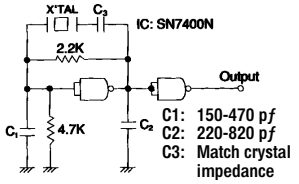
Dimensions in millimeters



HC33/U Case HC49/U (HC18/U) Case TF Case

- Frequency calibration tolerance: ± 50ppm @ 25°C
- Operating temperature: -10°C to +60°C
- Drive level: 4.0 mW maximum
- Frequency stability tolerance: ±50 ppm from -10°C to +60°C
- Shunt capacitance: 7p*f* maximum

Application Reference (4~14MHz) (Parallel Resonance)



HC33/U CASE

Part Number	Product Number	Frequency (MHz)	Impedance	Microprocessor	Pricing 1	10	100	1000
14349	CY1★	1.0	13p*f*	MC6800/6808/6809E/6500 series	$4.95	$4.49	$3.95	$3.49
14357	CY1.84	1.8432	Series	MC14411/CDP1802/CDP1804	1.09	.99	.89	.69

HC49/U (HC18/U) CASE

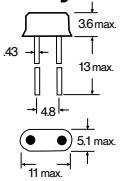
102613	CY1.843	1.8432	18p*f*	MC14411/MC6802	$.99	$.79	$.59	$.49
102621	CY2.0	2.0	Series	2650/F-8	1.49	1.25	.99	.75
101274	CY2.457	2.4576	32p*f*	CDP1702/1802C/1804/1804C	.79	.69	.59	.49
14525	CY3.27	3.2768	18p*f*	IM6100C/CDP1802/CDP1804	.79	.69	.59	.49
14533	CY3.57★	3.579545	18p*f*	MC6801,2,3/MM5369	.79	.69	.59	.49
14568	CY3.68	3.6864	18p*f*	8748/8035-8	.79	.69	.59	.49
14592	CY4★	4.0	20p*f*	MCS-40/MC6802,8,9/CDP1802	.79	.69	.59	.49
14621	CY4.91	4.9152	Series	CDP1802C/1804/1804C	.79	.69	.59	.49
14664	CY5.06	5.0688	Series	COM5016/5016T/5031	.45	.35	.25	.19
14681	CY6	6.0	18p*f*	MCS-48/IM8048	.79	.69	.59	.49
14699	CY6.14	6.144	30p*f*	MCS-85/8085	.79	.69	.59	.49
14710	CY7.37	7.3728	30p*f*	8051/8031	.79	.69	.59	.49
14728	CY8★	8.0	Series	IM6100A/MC68B09	.79	.69	.59	.49
14381	CY10★	10.0	Series	MCS-85/8085A-2	.79	.69	.59	.49
120061	CY11.05	11.0592	Series	General purpose	.79	.69	.59	.49
14402	CY12	12.0	Series	MCS-86/8086/8284/8202	.79	.69	.59	.49
14437	CY14.31	14.31818	Series	8080/8224/general purpose	.59	.49	.39	.29
14453	CY16	16.0	Series	8080/8224/general purpose	.79	.69	.59	.39
14517	CY20	20.0	Series	MCS-80/8080A/8224	.79	.69	.59	.39

TF CASE

14584	CY32.76	32.768kHz	10.5p*f*	Tuning fork	$.79	$.69	$.59	$.49

Low Profile Microprocessor Crystals

- Frequency range: 3.5 to 70.0MHz
- Operating temp.: -10°C to +60°C
- Drive level: 0.5mW (fundamental frequency)
- Aging: ±5ppm/year maximum
- Frequency stability tolerance: ±50ppm



HC49/S Case

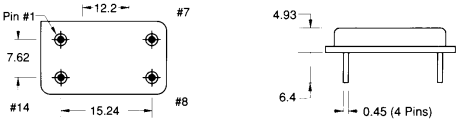
HC49/S CASE (Low Profile)

Part Number	Product Number	Frequency (MHz)	Impedance	Max. Resist.	Microprocessor	Pricing 1	10	100	1000
137816	CY3.57LP	3.579545	17p*f*	150Ω	MC6801, 2, 3 / MM5369	$1.05	$.85	$.75	$.65
137832	CY4LP	4.000	17p*f*	120Ω	MCS-40 / MC6802, 8 ,9 / CDP1802	1.05	.85	.75	.65
137859	CY8LP	8.000	Series	60Ω	IM6100A / MC68B09	1.05	.85	.75	.65
137875	CY11.05LP	11.0592	Series	50Ω	General purpose	1.05	.85	.75	.65
137891	CY16LP	16.000	Series	40Ω	8080 / 8224 / general purpose	1.05	.85	.75	.65

TTL Crystal Clock Oscillators (full can)



Dimensions in millimeters

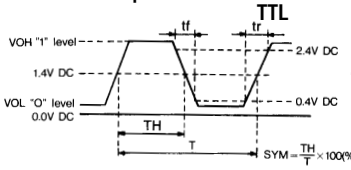


Specifications

- Input voltage: +5VDC, ±0.5VDC
- OSC series oscillators fit into a standard 14-pin DIP socket PN 37209 (pg 54)
- Frequency stability ±100ppm
- Operating temperature: 0°C to 70°C

Pin #	Function
1*	N/C
7	GND
8	Output
14	+5VDC

Output Waveforms



Socket



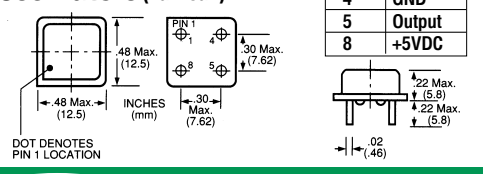
133006

Part No.	Product No.	Frequency (MHz)	Input Current	Rise Fall time	Max Input Curr.	Output Curr.	1	10	100	1000
27861	OSC1	1.0	45mA	15ns	7mA	-1mA	$2.95	$2.75	$2.49	$2.25
27879	OSC1.84	1.8432	45mA	15ns	7mA	-1mA	1.89	1.69	1.39	1.19
27924	OSC2	2.0	30mA	15ns	7mA	-1mA	2.29	2.09	1.95	1.75
27967	OSC4	4.0	50mA	10ns	7mA	-1mA	1.89	1.69	1.39	1.19
27991	OSC8	8.0	30mA	15ns	15mA	-3mA	1.29	1.09	.89	.69
27887	OSC10	10.0	20mA	10ns	15mA	-3mA	1.29	1.09	.89	.69
144207	OSC11.05	11.059	30mA	10ns	50mA	-3mA	1.29	1.09	.89	.69
27895	OSC12	12.0	50mA	10ns	15mA	-3mA	1.29	1.09	.89	.69
108652	OSC14.31	14.31818	50mA	10ns	15mA	-3mA	1.29	1.09	.79	.59
27908	OSC16	16.0	50mA	10ns	15mA	-3mA	1.29	1.09	.89	.69
27932	OSC20	20.0	20mA	10ns	17mA	-3mA	1.29	1.09	.89	.69
76814	OSC25	25.0	15mA	7ns	18mA	-3mA	1.29	1.09	.89	.69
27941	OSC32	32.0	15mA	7ns	18mA	-4mA	1.29	1.09	.89	.69
76822	OSC33	33.0	15mA	6ns	18mA	-4mA	1.89	1.69	1.39	1.19
153226	OSC40	40.0	15mA	6ns	18mA	-4mA	1.29	1.19	.99	.79
76831	OSC50	50.0	25mA	6ns	25mA	-4mA	1.29	1.19	.99	.79
77489	OSC80	80.0	80mA	3ns	25mA	-4mA	1.89	1.69	1.39	1.19
76857	OSC100	100.0	90mA	3ns	25mA	-4mA	2.49	2.25	1.95	1.75

Part No.	Description	1	10	100	1000
133006	14-pin full can oscillator socket, low profile soldertail	$.59	$.45	$.39	$.35

TTL Crystal Clock Oscillators (half can)

Pin #	Function
1	N/C
4	GND
5	Output
8	+5VDC



- OSCH series oscillators fit into a standard 8-pin DIP socket P/N 51625 (pg 54)
- Input voltage: +5VDC, ±0.5VDC • Frequency stability: ±100ppm • Operating temperature: 0°C to 70°C

Part Number	Product Number	Frequency (MHz)	Input Current	Rise Fall time	Max Input Current	Output Current	Pricing 1	10	100	1000
95249	OSC1H	1.0	20mA	6ns	30mA	-0.4mA	$2.75	$2.49	$2.25	$1.95
102779	OSC10H	10.0	30mA	6ns	45mA	-0.4mA	1.95	1.75	1.49	1.25
172161	OSC50H	50.0	20mA	6ns	30mA	-0.4mA	1.75	1.49	1.25	1.15

We carry major manufacturers – call for pricing on quantities over 5000.

Any Diode may be supplied in ammo-style tape by special order – 1000 piece minimum



TO-220/AB Case



DL-35 Case



TO-126 Case



151247

DO-7/35/41 Case

✳ Prepackaged: please order in increments of 10, 100 or 1000

Taped-ammo style: please order in increments of 1000

Zener Diodes

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
36089	1N4732	5096	DO-41	4.7V @53mA 1 W	✳	$.09	$.08	$.06
36290	1N751	5010A	DO-35	5.1V @20mA .5 W	✳	.09	.08	.06
36097	1N4733★	135A	DO-41	5.1V @49mA 1 W	✳	.09	.08	.06
36118	1N4734	136A	DO-41	5.6V @45mA 1 W	✳	.09	.08	.06
36126	1N4735★	137A	DO-41	6.2V @41mA 1 W	✳	.09	.08	.06
36169	1N4742★	142A	DO-41	12.0V @21mA 1 W	✳	.09	.08	.06
36185	1N4744★	145A	DO-41	15.0V @17mA 1 W	✳	.09	.08	.06

Zener Diodes

Part No.	Product No.	Case	Description	1	10	100	1000
179004	1N5225B-VSHY	DO-35	3.0V @ 20mA	✳	$.12	$.11	$.10
179012	1N5226B-VSHY	DO-35	3.3V @ 20mA	✳	.08	.07	.06
179021	1N5229B-VSHY	DO-35	4.3V @ 20mA	✳	.08	.07	.06
179039	1N5230B-VSHY	DO-35	4.7V @ 20mA	✳	.08	.07	.06
179047	1N5231B-VSHY	DO-35	5.1V @ 20mA	✳	.08	.07	.06
179055	1N5232B-VSHY	DO-35	5.6V @ 20mA	✳	.07	.06	.05
179063	1N5234B-VSHY	DO-35	6.2V @ 20mA	✳	.07	.06	.05
179071	1N5239B-VSHY	DO-35	9.1V @ 20mA	✳	.07	.06	.05
179080	1N5241B-VSHY	DO-35	11V @ 20mA	✳	.07	.06	.05
179098	1N5242B-VSHY	DO-35	12V @ 20mA	✳	.07	.06	.05
179101	1N5245B-VSHY	DO-35	15V @ 8.5mA	✳	.07	.06	.05
179119	1N5246B-VSHY	DO-35	16V @ 7.8mA	✳	.07	.06	.05
179127	1N5248B-VSHY	DO-35	18V @ 7.0mA	✳	.07	.06	.05
179135	1N5250B-VSHY	DO-35	20V @ 6.2mA	✳	.07	.06	.05
179143	1N5253B-VSHY	DO-35	25V @ 5.0mA	✳	.07	.06	.05
179151	1N5257B-VSHY	DO-35	33V @ 3.8mA	✳	.07	.06	.05
179160	1N5258B-VSHY	DO-35	36V @ 3.4mA	✳	.07	.06	.05
179178	1N5260B-VSHY	DO-35	43V @ 3.0mA	✳	.07	.06	.05
179186	1N5262B-VSHY	DO-35	51V @ 2.5mA	✳	.07	.06	.05
179194	1N5267B-VSHY	DO-35	75V @ 1.7mA	✳	.07	.06	.05

Zener Diodes

Part No.	Product No.	Case	Description	1	10	100	1000
178765	1N4730A-VSHY	DO-41	3.9V @ 64mA	✳	$.13	$.11	$.09
178773	1N4732A-VSHY	DO-41	4.7V @ 53mA	✳	.13	.11	.09
178781	1N4733A-VSHY	DO-41	5.1V @ 49mA	✳	.13	.11	.09
178790	1N4734A-VSHY	DO-41	5.6V @ 45mA	✳	.13	.11	.09
178802	1N4735A-VSHY	DO-41	6.2V @ 41mA	✳	.13	.11	.09
178811	1N4737A-VSHY	DO-41	7.5V @ 34mA	✳	.13	.11	.09
178829	1N4738A-VSHY	DO-41	8.2V @ 31mA	✳	.13	.11	.09

Zener Diodes

Part No.	Product No.	Case	Description	1	10	100	1000
178837	1N4739A-VSHY	DO-41	9.1V @ 28mA	✳	$.13	$.11	$.09
178845	1N4740A-VSHY	DO-41	10V @ 25mA	✳	.13	.11	.09
178853	1N4742A-VSHY	DO-41	12V @ 21mA	✳	.13	.11	.09
178861	1N4744A-VSHY	DO-41	15V @ 17mA	✳	.13	.11	.09
178870	1N4746A-VSHY	DO-41	18V @ 14mA	✳	.13	.11	.09
178888	1N4747A-VSHY	DO-41	20V @12.5mA	✳	.13	.11	.09
178896	1N4748A-VSHY	DO-41	22V @11.5mA	✳	.13	.11	.09
178909	1N4749A-VSHY	DO-41	24V @10.5mA	✳	.13	.11	.09
178917	1N4750A-VSHY	DO-41	27V @ 9.5mA	✳	.13	.11	.09
178925	1N4751A-VSHY	DO-41	30V @ 8.5mA	✳	.13	.11	.09
178933	1N4752A-VSHY	DO-41	33V @ 7.5mA	✳	.13	.11	.09
178941	1N4753A-VSHY	DO-41	36V @ 7.0mA	✳	.13	.11	.09
178950	1N4755A-VSHY	DO-41	43V @ 6.0mA	✳	.13	.11	.09
178968	1N4756A-VSHY	DO-41	47V @ 5.5mA	✳	.13	.11	.09
178976	1N4758A-VSHY	DO-41	56V @ 4.5mA	✳	.13	.11	.09
178984	1N4759A-VSHY	DO-41	62V @ 4.0mA	✳	.13	.11	.09
178992	1N4761A-VSHY	DO-41	75V @ 3.3mA	✳	.13	.11	.09

Switching Diodes

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35967	1N3600★	519	DO-35	50PRV @100µa 200mA	✳	$.12	$.10	$.08
36038	1N4148★	519	DO-35	75 PRV @ 50µa 10mA	✳	.04	.03	.02
151247	1N4148T	519	DO-35	75 PRV @ 50µa 10mA	#	#	#	.02
36311	1N914★	519	DO-35	75 PRV @ 5µa 10mA	✳	.04	.03	.02

Switching Diodes

Part No.	Product No.	Case	Description	1	10	100	1000
179207	1N914-VSHY	DO-35	100PRV @ 25mA	✳	$.06	$.05	$.04
179215	1N4148-VSHY	DO-35	100PRV @ 25mA	✳	.14	.13	.11

General Purpose Diode

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35941	1N270	109	DO-7	80 PRV 200mA	$.59	$.55	$.49	$.45

General Purpose Diodes

Part No.	Product No.	Case	Description	1	10	100	1000
179231	BAV21-VSHY	DO-35	250PRV @ 200mA	✳	$.08	$.07	$.06
179223	BAV20-VSHY	DO-35	200PRV @ 200mA	✳	.08	.07	.06

Surface Mount Diodes

Part No.	Prod. No.	NTE/ECG	Case	Description	1	100	1000
94908	1N4148SM	—	DL-35	75 PRV @ 50µa 10mA (1N 914)	✳	$.05	$.035

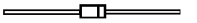
Triacs

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
140425	2N6071A	5603	TO-126	200 PRV 4A	$.69	$.59	$.49	$.45
31819	SC146B	5633	TO-220	200 PRV10A (2N6342)	1.49	1.29	1.09	.89
31827	SC146M	5637	TO-220	600 PRV10A (2N6344)	1.69	1.49	1.29	1.09
139336	Q4015L5	56020	TO-220AB	400 PRV 15A	1.69	1.49	1.25	1.09

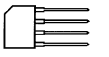

TO-92


TO-220/AB

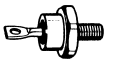

WOG GBPC


1.5KE / A405 / DO-15 / DO-27A / DO-41 / DO-201AD / DO-204AL


W0 type 4-lead Molded Case


KBP type


179-01 Case


DO-5 Case

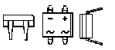

4-Pin DIP Case

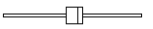

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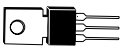

TB35

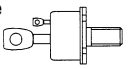

MB35


BR8D


DF


T6L


TO-202 Case


TO-65 Case


TO-92 Case

✳ Prepackaged: please order in increments of 10, 100 or 1000

Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
177615	1N4001	DO-41	50PIV @ 1A	✳	$.05	$.04	$.03
177623	1N4002	DO-41	100PIV @ 1A	✳	.05	.04	.03
177631	1N4003	DO-41	200PIV @ 1A	✳	.05	.04	.03
177640	1N4004	DO-41	400PIV @ 1A	✳	.05	.04	.03
177658	1N4005	DO-41	600PIV @ 1A	✳	.05	.04	.03
177666	1N4006	DO-41	800PIV @ 1A	✳	.05	.04	.03
177674	1N4007	DO-41	1000PIV @ 1A	✳	.05	.04	.03
177682	1N5400	DO-201AD	50PIV @ 3A	✳	.16	.15	.13
177691	1N5401	DO-201AD	100PIV @ 3A	✳	.16	.15	.13
177703	1N5402	DO-201AD	200PIV @ 3A	✳	.16	.15	.13
177711	1N5404	DO-201AD	400PIV @ 3A	✳	.16	.15	.13
177720	1N5406	DO-201AD	600PIV @ 3A	✳	.16	.15	.13
177738	1N5407	DO-201AD	800PIV @ 3A	✳	.16	.15	.13
177746	1N5408	DO-201AD	1000PIV @ 3A	✳	.16	.15	.13
177754	T6A05L	T6L	50PIV @ 6A	.49	.44	.39	.36
177762	T6A10L	T6L	100PIV @ 6A	.49	.44	.39	.36
177771	T6A20L	T6L	200PIV @ 6A	.49	.44	.39	.36
177789	T6A40L	T6L	400PIV @ 6A	.49	.44	.39	.36
177797	T6A60L	T6L	600PIV @ 6A	.49	.44	.39	.36
177800	T6A80L	T6L	800PIV @ 6A	.49	.44	.39	.36
177818	T6A100L	T6L	1000PIV @ 6A	.49	.44	.39	.36

Bridge Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
178124	W005M	WOM	50PIV @ 1.5A	$.42	$.38	$.34	$.31
178132	W01M	WOM	100PIV @ 1.5A	.42	.38	.34	.31
178141	W02M	WOM	200PIV @ 1.5A	.42	.38	.34	.31
178159	W04M	WOM	400PIV @ 1.5A	.42	.38	.34	.31
178167	W06M	WOM	600PIV @ 1.5A	.42	.38	.34	.31
178175	W08M	WOM	800PIV @ 1.5A	.42	.38	.34	.31
178183	BR805D	BR8D	50PIV @ 2A	.85	.77	.69	.62
178191	BR81D	BR8D	100PIV @ 2A	.85	.77	.69	.62
178204	BR82D	BR8D	200PIV @ 2A	.85	.77	.69	.62
178212	BR84D	BR8D	400PIV @ 2A	.85	.77	.69	.62
178221	BR86D	BR8D	600PIV @ 2A	.85	.77	.69	.62
178239	BR88D	BR8D	800PIV @ 2A	.85	.77	.69	.62
178247	BR810D	BR8D	1000PIV @ 2A	.85	.77	.69	.62
178255	MB2505	MB35	50PIV @ 25A	4.19	3.77	3.39	3.05
178263	MB251	MB35	100PIV @ 25A	4.19	3.77	3.39	3.05
178271	MB252	MB35	200PIV @ 25A	4.19	3.77	3.39	3.05
178280	MB254	MB35	400PIV @ 25A	4.19	3.77	3.39	3.05
178298	MB256	MB35	600PIV @ 25A	4.19	3.77	3.39	3.05
178301	MB258	MB35	800PIV @ 25A	4.19	3.77	3.39	3.05
178319	MB2510	MB35	1000PIV @ 25A	4.19	3.77	3.39	3.05
178327	TB251	TB35	100PIV @ 25A	4.19	3.77	3.39	3.05
178335	TB252	TB35	200PIV @ 25A	4.19	3.77	3.39	3.05
178343	TB254	TB35	400PIV @ 25A	4.19	3.77	3.39	3.05
178351	TB256	TB35	600PIV @ 25A	4.19	3.77	3.39	3.05

Bridge Rectifiers (continued)

Part No.	Product No.	Case	Description	1	10	100	1000
178360	TB258	TB35	800PIV @ 25A	$4.19	$3.77	$3.39	$3.05
178378	TB2510	TB35	1000PIV @ 25A	4.19	3.77	3.39	3.05
178386	MB3505	MB35	50PIV @ 35A	4.39	3.95	3.56	3.19
178394	MB351	MB35	100PIV @ 35A	4.39	3.95	3.56	3.19
178407	MB352	MB35	200PIV @ 35A	4.39	3.95	3.56	3.19
178415	MB354	MB35	400PIV @ 35A	4.39	3.95	3.56	3.19
178423	MB356	MB35	600PIV @ 35A	4.39	3.95	3.56	3.19
178431	MB358	MB35	800PIV @ 35A	4.39	3.95	3.56	3.19
178440	TB3505	TB35	50PIV @ 35A	4.39	3.95	3.56	3.19
178458	TB351	TB35	100PIV @ 35A	4.39	3.95	3.56	3.19
178466	TB352	TB35	200PIV @ 35A	4.39	3.95	3.56	3.19
178474	TB354	TB35	400PIV @ 35A	4.39	3.95	3.56	3.19
178482	TB356	TB35	600PIV @ 35A	4.39	3.95	3.56	3.19
178491	TB358	TB35	800PIV @ 35A	4.39	3.95	3.56	3.19
178503	TB3510	TB35	1000PIV @ 35A	4.39	3.95	3.56	3.19

Glass Passivated Bridge Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
178001	DF005M	DF	50PIV @ 1.0A	$.49	$.44	$.39	$.36
178028	DF01M	DF	100PIV @ 1.0A	.49	.44	.39	.36
178044	DF02M	DF	200PIV @ 1.0A	.49	.44	.39	.36
178061	DF04M	DF	400PIV @ 1.0A	.49	.44	.39	.36
178087	DF06M	DF	600PIV @ 1.0A	.53	.48	.43	.39
178108	DF08M	DF	800PIV @ 1.0A	.53	.48	.43	.39

Glass Passivated Bridge Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
178010	DF005M-GSI	DF	50PIV @ 1.0A	$.32	$.29	$.26	$.23
178036	DF01M-GSI	DF	100PIV @ 1.0A	.32	.29	.26	.23
178052	DF02M-GSI	DF	200PIV @ 1.0A	.32	.29	.26	.23
178079	DF04M-GSI	DF	400PIV @ 1.0A	.32	.29	.26	.23
178095	DF06M-GSI	DF	600PIV @ 1.0A	.35	.32	.28	.26
178116	DF08M-GSI	DF	800PIV @ 1.0A	.35	.32	.28	.26
179400	DF10M-GSI	DF	1000PIV @ 1.0A	.35	.32	.28	.26
179418	W005G-GSI	W0G	50PIV @ 1.5A	.46	.41	.37	.34
179426	W01G-GSI	W0G	100PIV @ 1.5A	.46	.41	.37	.34
179434	W02G-GSI	W0G	200PIV @ 1.5A	.46	.41	.37	.34
179442	W04G-GSI	W0G	400PIV @ 1.5A	.46	.41	.37	.34
179451	W06G-GSI	W0G	600PIV @ 1.5A	.49	.44	.39	.36
179469	W08G-GSI	W0G	800PIV @ 1.5A	.49	.44	.39	.36
179477	GBPC25-01-GSI	GBPC	100PIV @ 25A	2.89	2.59	2.34	2.11
179485	GBPC25-02-GSI	GBPC	200PIV @ 25A	2.89	2.59	2.34	2.11
179493	GBPC25-04-GSI	GBPC	400PIV @ 25A	2.89	2.59	2.34	2.11
179506	GBPC25-06-GSI	GBPC	600PIV @ 25A	2.89	2.59	2.34	2.11
179514	GBPC25-08-GSI	GBPC	800PIV @ 25A	2.89	2.59	2.34	2.11
179522	GBPC25-10-GSI	GBPC	1000PIV @ 25A	2.89	2.59	2.34	2.11

✳ Prepackaged: please order in increments of 10, 100 or 1000

Full Wave Bridge Rectifiers

Part No.	Product No.	NTE/ECG	Case	Description	1	10	100	1000
103018	W02G	—	4-lead molded	200 PRV 1 amp	$.45	$.39	$.35	$.29
102980	W04G	—	4-lead molded	400 PRV 1 amp	.45	.39	.35	.29
102998	W06G	—	4-lead molded	600 PRV 1 amp	.45	.39	.35	.25
103000	DF01M	5332	4-pin DIP	100 PRV 1 amp	.39	.35	.29	.25
103042	DF02M	5332	4-pin DIP	200 PRV 1 amp	.49	.45	.39	.25
102971	DF04M	5332	4-pin DIP	400 PRV 1 amp	.49	.45	.39	.35
103034	DF06M	5332	4-pin DIP	600 PRV 1 amp	.49	.45	.39	.35
145429	KBP02M	—	4-lead molded	200 PRV 1.5 amp	.59	.49	.45	.39
119562	KBP04M	—	4-lead molded	400 PRV 1.5 amp	.59	.49	.45	.29
25574	MDA990-3★	5322	179-01	200 PRV 30 amp	3.95	3.49	2.95	2.49
25591	MDA990-6	5326	179-01	600 PRV 30 amp	4.95	3.95	3.49	2.95

Glass Passivated Ultra Fast Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
177877	UF4001	DO-41	50PIV @ 1.0A	$.23	$.21	$.19	$.17
177885	UF4002	DO-41	100PIV @ 1.0A	.23	.21	.19	.17
177893	UF4003	DO-41	200PIV @ 1.0A	.23	.21	.19	.17
177906	UF4004	DO-41	400PIV @ 1.0A	.23	.21	.19	.17
177914	UF4005	DO-41	600PIV @ 1.0A	.25	.23	.19	.18
177922	UF4006	DO-41	800PIV @ 1.0A	.25	.23	.19	.18
177931	UF4007	DO-41	1000PIV @ 1.0A	.25	.23	.19	.18

Silicon Rectifiers

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35975	1N4001★	116	DO-41	50 PRV 1 amp	✳	$.04	$.025	$.02
76961	1N4002	116	DO-41	100 PRV 1 amp	✳	.04	.025	.02
76970	1N4003	116	DO-41	200 PRV 1 amp	✳	.04	.025	.02
35991	1N4004★	116	DO-41	400 PRV 1 amp	✳	.04	.025	.02
76988	1N4005	116	DO-41	600 PRV 1 amp	✳	.04	.025	.02
76996	1N4006	125	DO-41	800 PRV 1 amp	✳	.07	.05	.04
36011	1N4007★	125	DO-41	1000 PRV 1 amp	✳	.04	.025	.02
77075	1N5400	5800	DO-27A	50 PRV 3 amp	✳	.10	.09	.08
36249	1N5401★	5801	DO-27A	100 PRV 3 amp	✳	.10	.09	.08
77083	1N5402	5802	DO-27A	200 PRV 3 amp	✳	.10	.09	.08
36265	1N5404★	5804	DO-27A	400 PRV 3 amp	✳	.10	.09	.08
36273	1N5408★	5809	DO-27A	1000 PRV 3 amp	✳	.15	.13	.11

Silicon Controlled Rectifiers (SCR) *Isolated

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
119802	2N5060	5400	TO-92	25 PRV 0.8A	$.35	$.29	$.25	$.19
120070	2N5062	5402	TO-92	100 PRV 0.8A	.49	.45	.39	.35
14736	C106B1	5455	TO-202	200 PRV 4A (2N6239)*	.59	.49	.45	.39
14752	C122B	5463	TO-220	200 PRV 8A*	1.25	.99	.75	.65
14761	C122M	5466	TO-220	600 PRV 8A*	1.35	1.15	.99	.89
140417	2N6507	5554	TO-220AB	400 PRV 25A	1.69	1.49	1.29	1.09
14859	C38M	5547	TO-65	600 PRV 35A (2N3899)	4.95	3.95	3.49	2.95

Fast Recovery Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
177826	1N4933	A-405	50PIV @ 1.0A	✳	$.09	$.08	$.07
177834	1N4934	A-405	100PIV @ 1.0A	✳	.09	.08	.07
177842	1N4935	A-405	200PIV @ 1.0A	✳	.09	.08	.07
177851	1N4936	A-405	400PIV @ 1.0A	✳	.09	.08	.07
177869	1N4937	A-405	600PIV @ 1.0A	✳	.09	.08	.07

Schottky Barrier Rectifiers

Part No.	Product No.	Case	Description	1	10	100	1000
177949	1N5817	DO-204AL	20PIV @ 1A	$.24	$.22	$.19	$.18
177957	1N5818	DO-204AL	30PIV @ 1A	.24	.22	.19	.18
177965	1N5819	DO-204AL	40PIV @ 1A	.24	.22	.19	.18
177973	1N5820	DO-201AD	20PIV @ 3A	.39	.35	.32	.28
177981	1N5821	DO-201AD	30PIV @ 3A	.39	.35	.32	.28
177990	1N5822	DO-201AD	40PIV @ 3A	.39	.35	.32	.28

Stud Rectifier

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
35924	1N1188	5990	DO-5	400 PRV 35 amp	$3.49	$3.25	$2.49	$2.25

Bidirectional Transient Voltage Suppressor

Part No.	Prod. No.	NTE/ECG	Case	Description	1	10	100	1000
103106	1.5KE15CA	4921	1.5KE	15V@1mA 1500W	$.65	$.55	$.45	$.39

Transient Voltage Suppressors

CA: Bidirectional
A: Unidirectional

Part No.	Product No.	Case	Min Brkdwn Vltg. (Vbr)	Stand-off Voltage	Pricing 1	10	100	1000
179531	1.5KE100CA-GSI	1.5KE	95	85.5	$.79	$.71	$.64	$.58
179549	1.5KE16A-GSI	1.5KE	15.2	13.6	.59	.53	.48	.43
179557	1.5KE18A-GSI	1.5KE	17.1	15.3	.59	.53	.48	.43
179565	1.5KE22A-GSI	1.5KE	20.9	18.8	.59	.53	.48	.43
179573	1.5KE250CA-GSI	1.5KE	237	214	.89	.79	.72	.65
179581	1.5KE30AGSI	1.5KE	28.5	25.6	.56	.49	.45	.41
179590	1.5KE33A-GSI	1.5KE	31.4	28.2	.59	.53	.48	.43
179602	1.5KE350A-GSI	1.5KE	333	300	.69	.62	.56	.49
179611	1.5KE39CA-GSI	1.5KE	37.1	33.3	.59	.53	.48	.43
179629	1.5KE43CA-GSI	1.5KE	40.9	36.8	.64	.58	.52	.47
179637	1.5KE51A-GSI	1.5KE	48.5	43.6	.59	.53	.48	.43
179645	1.5KE51CA-GSI	1.5KE	48.5	43.6	.79	.71	.64	.58
179653	1.5KE6.8A-GSI	1.5KE	6.45	5.8	.59	.53	.48	.43
179661	1.5KE6.8CA-GSI	1.5KE	6.45	5.8	.79	.71	.64	.58
179670	1.5KE68CA-GSI	1.5KE	64.6	58.1	.79	.71	.64	.58
179688	P6KE12A-GSI	DO-15	11.4	10.2	.33	.29	.27	.24
179696	P6KE13A-GSI	DO-15	12.4	11.1	.33	.29	.27	.24
179709	P6KE15A-GSI	DO-15	14.3	12.8	.33	.29	.27	.24
179717	P6KE15CA-GSI	DO-15	14.3	12.8	.39	.35	.32	.28
179725	P6KE16A-GSI	DO-15	15.2	13.6	.33	.30	.27	.24
179733	P6KE16CA-GSI	DO-15	15.2	13.3	.39	.35	.32	.28
179741	P6KE18A-GSI	DO-15	17.1	15.3	.33	.29	.27	.24
179750	P6KE200A-GSI	DO-15	190	171	.33	.29	.27	.24
179768	P6KE200CA-GSI	DO-15	190	171	.39	.35	.32	.28
179776	P6KE20A-GSI	DO-15	19	17.1	.33	.29	.27	.24
179784	P6KE27A-GSI	DO-15	25.7	23.1	.33	.29	.27	.24
179792	P6KE33CA-GSI	DO-15	31.4	28.2	.39	.35	.32	.28
179805	P6KE39A-GSI	DO-15	37.1	33.3	.33	.30	.27	.24
179813	P6KE43CA-GSI	DO-15	40.9	36.8	.39	.35	.32	.28
179821	P6KE6.8A-GSI	DO-15	6.45	5.8	.33	.30	.27	.24
179830	P6KE6.8CA-GSI	DO-15	6.45	5.8	.39	.35	.32	.28
179848	P6KE82A-GSI	DO-15	77.9	70.1	.33	.29	.27	.24
179856	P6KE9.1A-GSI	DO-15	8.65	7.78	.33	.29	.27	.24

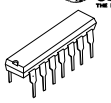
N-Channel Power Mosfet

Part No.	Product No.	Case	Drain Source Brkdwn Vltg.	Min. On-state DS Current	Pricing 1	10	100	1000
178669	2N7000-FSC	TO-92	60	0.2	$.23	$.21	$.19	$.17

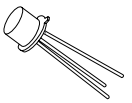
MOTOROLA SPRAGUE THE MARK OF RELIABILITY Siliconix

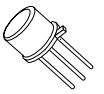
We carry major manufacturers – call for pricing on quantities over 5000.
Any Transistor may be supplied in ammo style tape by special order – 1000 piece min.

National Semiconductor TEXAS INSTRUMENTS

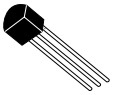

14-pin DIP Case

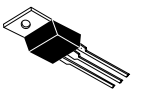

TO-3 Case


TO-18 Case


TO-39 Case


TO-72 Case


TO-92 Case


TO-220 Case


TO-237 Case


SOT-23 (SMT) Case

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part Number	Product Number	Case	Description	V_{ceo}	Min. hfe @ I_c	Typ. or Max F_t (MHz)	NTE/ ECG NO.	Pricing 1	10	100	1000
26462	MPSA06	TO-92	NPN medium power	30	50 @ 10mA	125	287	✳	$.11	$.09	$.07
26489	MPSA13	TO-92	NPN power darlington	30	5K @ 10mA	125	46	✳	.11	.09	.07
33021	TIP29A	TO-220	NPN power transistor	60	15 @ 1A	0.5	291	.49	.39	.35	.29
181825	TIP29C	TO-220	NPN epitaxial silicon transistor	100	15 @ 1A	3.0	—	.55	.49	.45	.39
33030	TIP30A	TO-220	PNP power transistor	60	15 @ 1A	0.5	292	.49	.39	.35	.29
33048	TIP31A★	TO-220	NPN power transistor	60	10 @ 3A	0.5	291	.49	.39	.35	.29
33064	TIP32A★	TO-220	PNP power transistor	60	10 @ 3A	0.5	292	.49	.39	.35	.29
181841	TIP32C	TO-220	PNP epitaxial silicon transistor	100	10 @ 3A	3.0	—	.55	.49	.45	.39
33081	TIP41A★	TO-220	NPN power transistor	60	15 @ 3A	1	331	.59	.49	.45	.39
33101	TIP42A★	TO-220	PNP power transistor	60	15 @ 3A	1	332	.59	.49	.45	.39
139580	TIP42C	TO-220	PNP epitaxial silicon transistor	100	15 @ 3A	3.0	—	.69	.59	.49	.45
120221	BPW77	TO-18	NPN photo transistor w/ lens	70	N/A	0.11	—	.99	.89	.75	.59
32977	TIP102★	TO-220	NPN power darlington	100	1K @ 3A	—	2343	.65	.55	.49	.45
32985	TIP106	TO-220	PNP power darlington	80	1K @ 3A	—	2344	.65	.55	.45	.39
32993	TIP120★	TO-220	NPN power darlington	60	1K @ 3A	—	261	.59	.49	.45	.39
120416	TIP122★	TO-220	NPN power darlington	100	1K @ 3A	—	261	.59	.49	.45	.39
33013	TIP125★	TO-220	PNP power darlington	60	1K @ 3A	—	262	.59	.49	.45	.39
38228	2N2219A	TO-39	NPN general purpose	40	100 @ 150mA	300	128	.59	.49	.45	.39
28628	PN2222★	TO-92	NPN general purpose	30	100 @ 150mA	250	123AP	✳	.11	.09	.07
38236	2N2222A★	TO-18	NPN general purpose	40	100 @ 150mA	250	123A	.39	.35	.29	.25
28644	PN2907★	TO-92	PNP general purpose	40	100 @ 150mA	200	159	✳	.10	.08	.06
38279	2N2907A★	TO-18	PNP general purpose	60	100 @ 150mA	200	129P	.29	.25	.22	.17
26454	MPQ2907	14-pin DIP	PNP gen. purp. small signal/quad	40	100 @ 150mA	200	2322	1.95	1.75	1.55	1.35
25831	MJE2955T★	TO-220	PNP power transistor	60	20 @ 4A	2	332	.65	.55	.49	.39
38295	2N3053	TO-39	NPN general purpose	40	25 @ 150mA	100	129	.55	.45	.39	.35
25857	MJE3055T★	TO-220	NPN power transistor	60	20 @ 4A	2	331	.65	.55	.49	.45
38308	2N3055★	TO-3	NPN power bipolar, epitaxial base	60	15 @ 10A	0.01	130	.75	.65	.59	.45
38324	2N3772★	TO-3	NPN power bipolar, epitaxial base	40	15 @ 4A	0.05	181	1.49	1.35	1.25	1.09
140151	2N3773	TO-3	NPN power audio	140	15 @ 8A	—	284	1.49	1.35	1.25	1.09
38359	2N3904★	TO-92	NPN general purpose	40	100 @ 10mA	300	123AP	✳	.06	.05	.04
38375	2N3906★	TO-92	PNP general purpose	40	100 @ 10mA	250	159	✳	.06	.05	.04
38421	2N4401★	TO-92	NPN general purpose	40	100 @ 150mA	250	123AP	✳	.07	.06	.05
38447	2N4403★	TO-92	PNP general purpose	40	100 @ 150mA	200	159	✳	.07	.06	.05
140388	2N5109	TO-39	NPN RF broad band transistor	20	40 @ 50mA	1200	278	2.19	1.95	1.75	1.55
38480	PN5179	TO-92	NPN high frequency transistor	15	25 @ 3mA	2000	229	.65	.55	.49	.45
140373	2N5179	TO-72	NPN low noise UHF transistor	12	25 @ 3mA	900	316	1.09	.99	.89	.79
140134	2N6725	TO-237	NPN darlington	50	25000 @ 200mA	100	48	.45	.39	.35	.29

FAIRCHILD SEMICONDUCTOR

Small Signal General Purpose Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. hfe @Ic (mA)	1	10	100	1000
178597	2N3904-FSC	TO-92	NPN	40	100 @ 10	✳	$.09	$.08	$.07
178618	2N3906-FSC	TO-92	PNP	-40	100 @ 10	✳	.09	.08	.07
178634	2N4401-FSC	TO-92	NPN	40	100 @ 150	✳	.17	.15	.14
178651	2N4403-FSC	TO-92	PNP	-40	100 @ 150	✳	.17	.15	.14
178677	KSP05-FSC	TO-92	NPN	60	50 @ 100	✳	.14	.12	.11
178693	KSP55-FSC	TO-92	PNP	-60	50 @ 100	✳	.22	.19	.18
178706	KSP06-FSC	TO-92	NPN	80	50 @ 100	✳	.14	.12	.11
178714	KSP56-FSC	TO-92	PNP	-80	50 @ 100	✳	.14	.12	.11
178722	KSP2222A-FSC	TO-92	NPN	40	100 @ 150	✳	.16	.15	.13
178731	KSP2907A-FSC	TO-92	PNP	-60	100 @ 150	✳	.16	.15	.13

TAITRON

Small Signal Low Noise Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. hfe@Ic	1	10	100	1000
178562	2N5088	TO-92	NPN	30	300 @ 0.1mA	$.26	$.23	$.21	$.19

FAIRCHILD SEMICONDUCTOR

Small Signal RF/VHF/UHF Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. hfe@Ic (mA)	1	10	100	1000
178685	KSP10-FSC	TO-92	NPN	25	60 @ 4	✳	$.17	$.15	$.14

TAITRON

Small Signal General Purpose Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. hfe@Ic (mA)	1	10	100	1000
178511	PN2222A	TO-92	NPN	40	100 @ 150	✳	$.16	$.15	$.13
178520	PN2907A	TO-92	PNP	-60	100 @ 150	✳	.16	.15	.13
178538	MPSA06	TO-92	NPN	80	100 @ 100	✳	.14	.12	.11
178589	2N3904	TO-92	NPN	40	100 @ 10	✳	.09	.08	.07
178600	2N3906	TO-92	PNP	-40	100 @ 10	✳	.09	.08	.07
178626	2N4401	TO-92	NPN	40	100 @ 150	✳	.17	.15	.14
178642	2N4403	TO-92	PNP	-40	100 @ 150	✳	.17	.15	.14

TAITRON

Small Signal High Voltage Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. hfe@Ic (mA)	1	10	100	1000
178546	MPSA42	TO-92	NPN	300	40 @ 10	$.25	$.23	$.20	$.18
178554	MPSA92	TO-92	PNP	-300	40 @ 10	.25	.23	.20	.18
178571	2N5551	TO-92	NPN	160	80 @ 10	.25	.23	.20	.18

FAIRCHILD SEMICONDUCTOR

Small Signal High Voltage Transistors

Part No.	Product No.	Case	Desc.	Vceo	Min. hfe@Ic (mA)	1	10	100	1000
178749	KSP42-FSC	TO-92	NPN	300	40 @ 10	$.25	$.23	$.19	$.18
178757	KSP92-FSC	TO-92	PNP	-300	40 @ 10	.25	.23	.19	.18

† Prepackaged: please order in increments of 100, 1000 or 3000

Surface Mount Technology Transistors (SMT)

Part Number	Product Number	Case	Description	V_{ceo}	Min. hfe @ I_c	Typ. or Max F_t (MHz)	NTE/ ECG NO.	Pricing 1	100	1000	3000
94941	PN2222SM	SOT-23	NPN general purpose	30	100 @ 150mA	250	123AP	†	$.10	$.07	$.05
94959	PN2907SM	SOT-23	PNP general purpose	40	100 @ 150mA	200	159	†	.10	.07	.05
94967	2N3904SM	SOT-23	NPN general purpose	40	100 @ 10mA	300	123AP	†	.10	.07	.05
94975	2N3906SM	SOT-23	PNP general purpose	40	100 @ 10mA	250	159	†	.10	.07	.05

J-FET Transistors

Part Number	Product Number	Case	Description	BV_{GS} (V)min @ IGuA	I_{DSS} (max) (mA) @ V_{DS}	VP (max) @ V_{DS}	NTE/ ECG No.	Pricing 1	10	100	1000
26403	MPF102★	TO-92	JFET (N Channel) RF, VHF, UHF, amp	25 @ 1	20 @ 15	4 @ 0.5	451	$.39	$.35	$.29	$.25
140142	J176	TO-92	JFET (P Channel)	30 @ 1	2 @ 25	4 @ -15	—	.39	.35	.29	.25
38341	2N3823	TO-72	JFET (N Channel) VHF, amp	30 @ 1	20 @ 15	8 @ 0.5	452	1.09	.99	.89	.79
38527	2N5951	TO-92	JFET (N Channel) RF, VHF, UHF, amp	30 @ 1	13 @ 15	5 @ 100	—	.99	.89	.79	.69
119423	2N7000	TO-92	FET TMOS (N Channel)	—	1 @ 48	—	491	.35	.29	.25	.22

Darlington Power Transistors

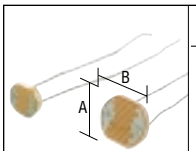
Part No.	Product No.	Case	Desc.	Vceo	Min. hfe@Ic	1	10	100	1000
179240	TIP102-SAM	TO-220	NPN	100	1K @ 3A	$.69	$.62	$.56	$.49
179258	TIP107-SAM	TO-220	PNP	-100	1K @ 3A	.69	.62	.56	.49
179266	TIP110-SAM	TO-220	NPN	60	500 @ 2A	.58	.52	.47	.42
179274	TIP112-SAM	TO-220	NPN	100	500 @ 2A	.62	.56	.49	.45
179282	TIP117-SAM	TO-220	PNP	-100	500 @ 2A	.62	.56	.49	.45
179291	TIP120-SAM	TO-220	NPN	60	1K @ 3A	.58	.52	.47	.42
179303	TIP122-SAM	TO-220	NPN	100	1K @ 3A	.62	.56	.49	.45
179311	TIP125-SAM	TO-220	PNP	-60	1K @ 3A	.58	.52	.47	.42
179320	TIP127-SAM	TO-220	PNP	-100	1K @ 3A	.62	.56	.49	.45

Power Transistors

Part No.	Prod. No.	Case	Desc.	Vceo	Min. hfe@Ic	1	10	100	1000
179338	TIP29C-SAM	TO-220	NPN	100	15 @ 1A	$.58	$.52	$.47	$.42
179346	TIP30C-SAM	TO-220	PNP	-100	15 @ 1A	.58	.52	.47	.42
179354	TIP31C-SAM	TO-220	NPN	100	10 @ 3A	.58	.52	.47	.42
179362	TIP32C-SAM	TO-220	PNP	-100	10 @ 3A	.58	.52	.47	.42
179371	TIP41C-SAM	TO-220	NPN	100	15 @ 3A	.66	.59	.53	.48
179389	TIP42C-SAM	TO-220	PNP	-100	15 @ 3A	.73	.66	.59	.53
179397	TIP50-SAM	TO-220	NPN	400	30 @ .3A	.77	.69	.62	.56

CDS Photocells

- Operating temperature: -30°C to +70°C • Cadmium Sulfide (CDS) • Soldering: 230°C for 3 seconds
- Generate variable signal based on detection of light levels • Applications include: auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

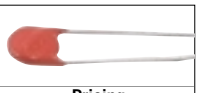


120301 120299

Part Number	Product Number	Size (inches) A	B	Rating Vp	mW	Resistance (Ω) Light	Dark	Lead Spacing (inches)	Lead Length (inches)	Pricing 1	10	100	1000
136063	CDST18	0.14	0.17	20	40	10K	100K	0.10	1.50	$.49	$.39	$.29	$.25
120310	CDS002	0.14	0.17	150	125	25K	2M	0.10	1.44	.55	.45	.35	.29
136047	CDST05	0.25	0.29	50	250	10K	100K	0.18	1.50	.55	.45	.25	.19
120301	CDS003	0.25	0.29	200	150	15K	500K	0.20	1.44	.69	.59	.49	.39
120299	CDS004	0.38	0.43	250	250	12K	1M	0.30	1.44	1.19	.99	.79	.59
136055	CDST08	0.40	0.44	50	250	10K	100K	0.30	1.50	.55	.45	.25	.19

ZA Series Varistor (Radial Lead)

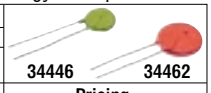
- Low DC voltage applications • Printed circuit board designs
- UL recognized as "transient voltage surge suppressors"
- Used for highly sensitive devices • Low transient energy
- Computer equipment • Alarm systems • Weight: .001 lbs.



ZA Series Part Number	Product Number	Size Disc. Dia. (mm)	Characteristics at 25°C Varistor Voltage @ 1 mA DC Test Current Min. Volts	$V_{N(dc)}$ Volts	Max. Volts	Maximum Clamping Voltage @ Ip Value Current (8/20µs) V Volts	Ip=2.0A Amps	Pricing 1	10	100	1000
96891	V8ZA1	7	6.0	8.2	11.0	22	5	$.35	$.29	$.25	$.19

LA Series Varistors (Radial Lead)

- AC power line applications • Power supplies
- UL recognized as "transient voltage surge suppressors"
- UL recognized as "across-the-line components" • High energy absorption


34446 34462

LA Series Part Number	Product Number	Size Disc. Dia. (mm)	Max. Ratings (+85°C) Characteristics at 25°C Continuous RMS Voltage $V_{m(ac)}$ Volts	DC Voltage $V_{m(dc)}$ Volts	Transient Energy (10/1000µs) W_{tm} Joules	Maximum Clamping Voltage @ Ip Value Current (8/20µs) V Volts	Ip=2.0A Amps	Pricing 1	10	100	1000
34454	V130LA2	7	130	175	11	340	10	$.39	$.35	$.29	$.19
34446	V130LA10A	14	130	175	38	340	50	.45	.39	.35	.29
34471	V250LA20A	14	250	330	72	650	50	.59	.49	.39	.35
34462	V130LA20A	20	130	175	70	340	100	.69	.59	.49	.39

JAMECO Thermoelectric Cooler Chips

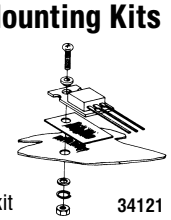
- Solid state heat pumps • Operating voltage: 15.4VDC nominal • T max (°C) = 60°C
- Heat or cool by changing direction of current • 20 AWG wire leads, 4" long
- Cools down to –30°C (dependent on external temperature)
- Couples: # of P&N type semiconductor pairs connected electrically in series
- P/N 172030 / 172048: 4A max. • P/N 172056: 8A max.

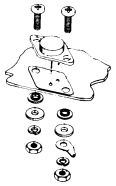

172048

Part No.	Product No.	Couples	Watts	Voltage (max.)DC	Current (max.) A	Size (L"xW"xT")	Weight (lbs.)	Pricing 1	10
172030	TEC30	71	19.7	8.4	4	1.2x1.2x0.2	0.05	$19.95	$17.95
172048	TEC40	127	35.6	15.4	4	1.6x1.6x0.2	0.07	24.95	22.49
172056	TEC50	127	79.1	15.4	8	2.0x2.0x0.2	0.1	39.95	35.95

TO-3 and TO-220 Heat Sink Mounting Kits

- TO-3 and TO-220 heat sink insulator assemblies
- 10 per pack
- **P/N 34121:** 5 pc kit
- **P/N 34139:** 12 pc kit


34121


34139

Part No.	Product No.	Type	1	10	100
34121	T2★	TO-220	$3.95	$3.49	$2.95
34139	T3	TO-3	4.95	4.49	3.95

TO-3 Heat Sink



- TO-3 package
- Black anodized
- 4.8"L x 1.5"W x 1.3"H

Part No.	Product No.	Type	1	10	100
16512	DUDE4★	TO-3	$2.95	$2.75	$2.49

TO-3 Heat Sink

Wakefield



- TO-3 style devices
- Black anodized aluminum
- Spacers not included • 1.9"L x 1.4"W x 1.3"H

Part No.	Product No.	Type	1	10	100
151546	635-125B2	TO-3	$.99	$.85	$.69

TO-3 Heat Sink w/ Mounting Screws

Thermalloy



- TO-3 case style
- Black anodized aluminum
- Low profile; ideal for PC boards with 0.5" centering between boards
- 2.1"L x 2.3"W x 0.4"H

Part No.	Product No.	Type	1	10	100
163820	THM6061B2	TO-3	$.39	$.35	$.25

TO-220 Heat Sink w/ Mounting Screws

Thermalloy



- TO-220 case style
- Black anodized aluminum
- Horizontal or vertical mounted
- 1.0"L x 1.6"W x 0.4"H

Part No.	Prod. No.	Type	1	10	100	1000
163811	THM7019	TO-220	$.39	$.35	$.25	$.19

TO-220 Heat Sink Clip



- Light weight aluminum
- TO-220 case style

IERC

- 0.8"L x 1.0"W x 0.4"H

Part No.	Prod. No.	Type	1	10	100	1000
107297	PSC2-2U	TO-220	$.49	$.45	$.39	$.35

TO-220 Heat Sink

Thermalloy



- Black anodized aluminum
- Plastic power semi-conductor devices
- 0.8"L x 0.7"W x 0.4"H (P/N 70658)
- 1.2"L x 1.0"W x 0.5"H (P/N 129242)

129242

Part No.	Product No.	Type	1	10	100	1000
70658	THM6073	TO-220	$.25	$.22	$.19	$.17
129242	THM6106	TO-220	.49	.45	.39	.35

Thermoelectric Coolers w/ Heat Sink



131975



147942

- **Removed from original equipment**
- Cools down to 45˚F
- Maximum heat sink operating temperature: 100˚C
- Operating input voltage: 13-15VDC
- Input current: 4 amp nominal
- Recommend fan – P/N 102875 (pg 78), 12VDC @ 740mA (fan installation is left up to the customer to meet their specific application)
- Heat or cool by changing direction of current
- Rated lifetime over 200,000 hrs.
- For stationary use recommend 13.8VDC @ 10A supply P/N 138667, pg 97
- 18 (AWG) wire leads, 3.0" length
- Can operate from 12V car battery

131975: One heat sink

- Size: Heat sink: 5.0"L x 5.0"W x 1.3"H
  Pump: 2.7"L x 1.8"W x 1.2"H

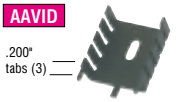
147942: Two heat sinks

- Size: Heat sink: 5.0"L x 4.0"W x 1.4"H
  Pump: 6.0"L x 4.8"W x 0.7"H

Part No.	Description	Wt. (lbs.)	1	10
131975	Thermo. cooler, hs (1)	1.9	$24.95	$21.95
147942	Thermo. cooler, hs (2)	2.4	26.95	23.95

TO-220 Heat Sink

AAVID



- TO-220 package
- Black anodized
- 1.2"L x 1.0"W x 0.5"H

Part No.	Product No.	Type	1	10	100	1000
42622	6030B★	TO-220	$.39	$.35	$.29	$.25

TO-220 Heat Sink

Thermalloy



- TO-220 package
- Black anodized
- 0.75"L x 0.52"W x 0.38"H

Part No.	Product No.	Type	1	10	100	1000
158051	THM6078	TO-220	$.39	$.35	$.29	$.25

TO-220 Heat Sink

Wakefield



- TO-220 package
- Black anodized
- 0.9"L x 1.0"W x 0.4"H

Part No.	Product No.	Type	1	10	100	1000
40504	291-36H★	TO-220	$.69	$.59	$.49	$.45

TO-220 Heat Sink

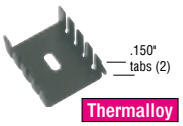
Thermalloy



- TO-220 case styles
- Aluminum
- 1.2"L x 1.0"W x 0.5"H

Part No.	Product No.	Type	1	10	100
70914	THM6106	TO-220	$.49	$.39	$.25

TO-220 Heat Sink

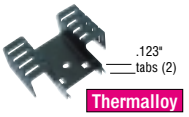


- Wave solderable
- TO-220 case styles
- Black anodized aluminum
- 1.2"L x 1.0"W x 0.5"H

Thermalloy

Part No.	Product No.	Type	1	10	100
70771	THM6038	TO-220	$.39	$.35	$.29

TO-220 Heat Sink



- TO-220 case styles
- Aluminum
- Good for high power devices
- 1.6"L x 2.0"W x 0.8"H

Thermalloy

Part No.	Product No.	Type	1	10	100
71301	THM7024	TO-220	$.79	$.69	$.59

TO-218 and TO-220 Heat Sinks

AAVID

167265



- Aluminum
- Vertical mount w/ solder tabs

167265: For TO-218 / TO-247

- Size: 2.0"L x 2.0"W x 0.5"H

Thermalloy



167273: For TO-220 with thermal clip

- Size: 2.0"L x 1.9"W x 1.0"H

167273

Part No.	Product No.	Type	1	10	100
167265	AVD592201	TO-218/247	$.35	$.25	$.17
167273	THM7023	TO-220	.39	.29	.19

TO-218 and TO-220 Heat Sinks w/ PCB Mounting Clip



164734 163846 163838

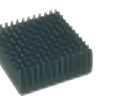
- Black anodized aluminum
- Can be mounted vertically w/ solderable mounting tabs or horizontally w/ studs
- **P/N 164734:** 1.4"L x 1.8"W x 0.4"H; low profile
- **P/N 163746:** 1.7"L x 1.8"W x 0.4"H
- **P/N 163838:** 1.1"L x 1.9"W x 1.1"H

Thermalloy

Part No.	Product No.	Type	1	10	100	1000
164734	THM6072	TO-220	$.39	$.35	$.25	$.19
163846	THM7021B	TO-218/220	.39	.35	.29	.19
163838	THM7025	TO-218/220	.39	.35	.29	.19

486 CPU Heat Sink

See pg 79 for more!



129234

- Adhesive tape for mounting
- 1.7"L x 1.6"W x 0.4"H (P/N 129226)
- 1.7"L x 1.6"W x 0.7"H (P/N 129234)

Part No.	Product No.	Type	1	10	50
129226	HS486-2	80486 CPU	$2.49	$1.95	$1.49
129234	HS486-3	80486 CPU	2.95	2.49	1.49

Thermalloy Inc. 2 oz. Tube Heat Sink Compound



Thermally loaded silicone based grease that improves transfer of energy across the metal to metal interface between transistor or rectifier to heat sink. • Color: opaque white • Weight: 0.2 lbs.

Part No.	Product No.	Description	1	10	100
167249	THM250	HS comp.	$7.95	$6.95	$5.95

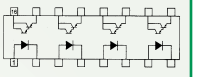
TEGHSPRAY 4 oz. Heat Sink Compound



This silicone free compound provides more effective heat transfer. Will not harden, dry out, melt, or contaminate wave solder baths. • Weight: 0.3 lbs.

Part No.	Product No.	Description	1	10
169252	1978DP	Heat sink comp	$16.95	$14.95

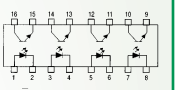
ISOCOM Photo Darlington Optoisolator



- Isolation test volt.: 7.5KV (peak); 5.3KV (rms) • 40V_b
- Current transfer ratio: 200 (min. %) • NPN transistor • 5000V_{ISO}
- V_{BR} (LED) I_R = 5µA: 5V (min.) • 16-pin DIP
- Continuous forward current: 50mA (max.)
- BV_{CEO} (I_C = 1mA): 40V (min.)
- I_{CEO}: (dark) V_{CE} = 40V; 0.4nA (max.)
- 1.17Vf @ 10mA (typical)
- V_{CE}: (Sat) I_F = 10mA; I_C = 2mA; 1.0V (max.)
- V_{BR} (LED) I_R = 10µA: 5V min.

Part No.	Product No.	1	10	100	500
160362	PS2502-4	$2.49	$2.25	$1.95	$1.75

ISOCOM Photo Transistor In-Line Package



- NPN transistor • 80V_b
- Isolation test volt.: 7.5KV (peak); 5.3KV (rms)
- Current transfer ratio: 80-6000 (min. %)
- Continuous forward current: 50mA (max.)
- V_{BR} (LED) I_R = 5µA: 5V (min.) • 16-pin DIP
- BV_{CEO} (I_C = 1mA): 80V (min.) • 5000V_{ISO}
- I_{CEO}: (dark) V_{CE} = 40V; 100nA (max)
- 1.17Vf @ 10mA (typical)
- V_{CE}: (Sat) I_F = 10mA; I_C = 2mA; 0.3V (max.)
- V_{BR} (LED) I_R = 10µA: 5V min.

Part No.	Product No.	1	10	100	500
160338	PS2501-4	$1.49	$1.35	$1.19	$1.09

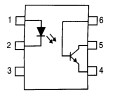
QT AC / DC to Logic Interface Optocoupler



- AC or DC input
- Programmable sense voltage
- Logic level compatibility
- Applications: low voltage detection, current sensing, 5V to 240V AC/DC sensing, industrial controls
- Supply voltage: 18V maximum
- Operating frequency: 4KHz maximum
- Withstanding insulation voltage: 2.5KV (rms) min.
- Propagation delay time: (to output low level) {R_L = 4.7Ω, C_L = 30pF} 6.0us

Part No.	Product No.	1	10	100	500
173534	HCPL-3700	$5.95	$5.35	$4.79	$4.39

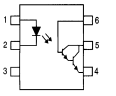
Photo Transistors *General Purpose (6-Pin DIP)*

- Base lead connected • NPN output transistor
- I_{CEO} (dark) V_{CE} = 10V: 50nA max.
- Isolation test voltage (KV): 7.5 (pk); 5.3 (rms)
- **160426/160434:** BV_{CEO} = 70VDC

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Cont. Fwd. Curr. Max. (mA)	Vce (Sat) Min. (V)	Pricing 1	10	100	500
40985	4N25★	20	50	0.5 (I_F = 50mA) (I_C = 2mA)	$.29	$.25	$.22	$.19
41005	4N26	20			.29	.25	.22	.19
144240	4N27	10			.29	.25	.22	.19
41013	4N28	10	50	0.3 (I_F = 10mA) (I_C = 0.5mA)	.25	.22	.19	.16
41056	4N35★	100			.35	.29	.25	.19
160426	CNY17-3	100	60	0.27 (I_F = 10mA) (I_C = 2.5mA)	.25	.19	.15	.12
160434	CNY17-4	160			.25	.19	.15	.12
172187	H11AX	10	10	0.2 (I_F = 10mA) (I_C = 0.5mA)	.25	.22	.19	.17

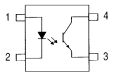
Photo Darlingtons *With Base Connection (6-Pin DIP)*

- Photo darlington transistor detector base lead connected • BV_{CEO} I_C =1mA: 30V min
- Current transfer ratio I_F=10mA V_{CE} = 10V
- Isolation voltage (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Cont. Fwd. Curr. Max. (mA)	Vce (Sat) Max. (V)	Pricing 1	10	100	500
41021	4N32	500	80	1.0 (I_F = 8mA) (I_C = 2mA)	$.35	$.29	$.25	$.19
41030	4N33★				.35	.29	.25	.19

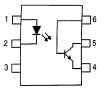
Photo Transistor *Low Input Photo Transistor*

- Isolation volt (KV): 7.5 (pk); 5.3 (rms)
- 4-pin DIP

Part Number	Product Number	BVceo I_C = 1mA	Curr. Trans.Ratio Min (%) V_{CE}=0.4V I_F=0.5/1mA	VBR I_R = 10µA	Pricing 1	10	100	500
138069	ISP817-3	70V	70/100	10V	$.89	$.79	$.69	$.59

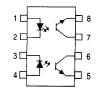
Photo Transistor *Single Channel (6-Pin DIP)*

- Base lead connected
- Isolation test voltage (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Curr. Tran.Ratio I_F=10mA (min)	Cont. Fwd. Curr. Max. (mA)	Vce (Sat) I_F=16mA I_C=2mA	Pricing 1	10	100	500
24900	MCT2	20%	50	0.4V (max)	$.35	$.29	$.25	$.22

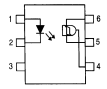
Photo Transistor *Dual Channel (8-Pin DIP)*

- Two independent isolators in one package
- Isolation breakdown volt. (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Curr. Tran.Ratio I_F=10mA (min)	Cont. Fwd. Curr. Max. (mA)	Vce (Sat) I_F=16mA I_C=2mA	Pricing 1	10	100	500
24918	MCT6	20%	50	0.4V (max)	$.59	$.55	$.49	$.45

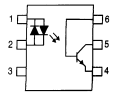
Schmitt Trigger *Single Channel (6-Pin DIP)*

- Microprocessor compatible
- Isolation breakdown volt. (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Threshold Current R_L = 270Ω Vcc = 5V Turn-On (max)	Threshold Current R_L = 270Ω Vcc = 5V Turn-Off (min)	Output Volt (low) R_L=270Ω Vcc=5V Max. (V)	Pricing 1	10	100	500
113988	H11L1	1.6mA	0.3mA	0.4	$.79	$.75	$.69	$.59

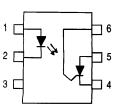
AC Input Isolator *Single Channel (6-Pin DIP)*

- Isolation breakdown volt. (KV): 7.5 (pk); 5.3 (rms)
- V_F (LED) I_F=10mA: 1.5V max.
- BV_{CEO} I_C=1mA: 30V min.

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Cont. Fwd. Curr. Max. (mA)	Vce (Sat) I_F=10mA I_C=0.5mA	Pricing 1	10	100	500
18825	H11AA1	20	100	0.4V (max)	$.49	$.45	$.39	$.35

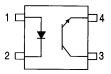
Photo SCR *Single Channel (6-Pin DIP)*

- Infrared LED emitter and light activated SCR
- Isolation voltage (KV): 7.5 (pk); 5.3 (rms)
- Continuous forward current: 60mA max.

Part Number	Product Number	Input Trig. Curr. (max) V_{TM} = 3V	Peak Off St. Rev. Curr. (max) V_{DRM}=rated R_{GK}=10KΩ	Pricing 1	10	100	500
18833	H11C3	14mA	200nA	$.85	$.79	$.69	$.65

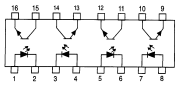
Single Channel Transistor Slotted Interrupter *(4-Pin DIP)*



- **114091:** With mounting tabs • **114104:** Without mounting tabs
- V_F: 1.7V max. @ 60mA

Part Number	Product Number	BVeco I_C = 1mA	BVeco I_E = 100µA	Iceo (max) V_{CE} = 25V Ih = 0	Pricing 1	10	100	500
114091	H21A1	30V min	6.0Vmin	100nA	$.89	$.76	$.69	$.65
114104	H22A1	30V max	6.0Vmax		.69	.65	.59	.55

Quad Channel *High Isolation Voltage/CTR/Sensitivity*



- Four independent isolators in one package • 16-pin DIP
- Isolation breakdown voltage (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Curr. Trans. Ratio (Min%) I_F = 10mA V_{CE} = 10V	Cont. Fwd. Curr. Max. (mA)	Pricing 1	10	100	500
114083	ISQ203	225-450 / 50[3]	50	$2.95	$2.49	$2.29	$1.95
114075	ISQ204	200-400 / 100[3]		2.95	2.75	2.49	1.95

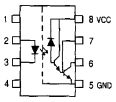
High Speed Transistor Coupler *Single Channel (8-Pin DIP)*



- Isolation voltage: 2.5KV (rms) min.
- Propagation delay time V_{CC} = 5V; I_F = 16mA: 0.8 (R_L = 1.9KΩ) µS max.

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Specified Input Current (mA)	Typical Data Rate (NRZ)	Pricing 1	10	100	500
42471	6N136	19	16	1Mbits/s	$.89	$.79	$.69	$.59

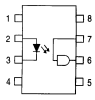
High Speed, High Gain Couplers *Single Channel (8-Pin DIP)*



- Isolation voltage: 2.5KV (rms) min.
- **P/N 113929:** Propagation delay time t_{PHL}: 25 (I_F=0.5mA) (R_L=4.7KΩ)
- **P/N 42489:** Propagation delay time t_{PHL}: 10 (I_F=1.6mA) (R_L=2.2KΩ)

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Specified Input Current (mA)	Typical Data Rate (NRZ)	Pricing 1	10	100	500
113929	6N139	400	0.5	300Kbits/s	$.99	$.89	$.79	$.69
42489	6N138	300	1.6		.99	.89	.79	.69

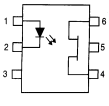
Very High Speed Logic Coupler *Single Channel (8-Pin DIP)*

- Isolation voltage: 2.5KV (rms) min.
- Propagation delay time R_L = 350Ω; C_L = 15pF; I_F = 7.5mA: t_{PHL} 75nS max. • LSTTL/TTL compatible

Part Number	Product Number	Curr. Transfer Ratio (Min%)	Specified Input Current (mA)	Typical Data Rate (NRZ)	Pricing 1	10	100	500
113911	6N137	700	5	10Mbits/s	$.99	$.89	$.79	$.69

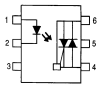
FET Coupler *Single Channel (6-Pin DIP)*



- Optically coupled pair with symmetrical bilateral silicon detector
- On state resistance I_F = 16mA; I_{46}= 100µA: 200Ω max
- Isolation breakdown voltage (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Output Brkdwn Volt. I_{46}=10µA	Cont. Fwd. Curr. Max. (mA)	Off State Curr. I_{46} = 15V	Pricing 1	10	100	500
113996	H11F1	30V (min)	60	50nA (max)	$2.75	$2.49	$2.25	$1.95

Zero Crossing Triac Couplers *Single Channel (6-Pin DIP)*



- Performs the function of a zero voltage crossing bilateral triac driver
- Isolation voltage (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Input Trig. Curr. V_{TM}=3V (Max)	Cont. Fwd. Curr. Max (mA)	Peak Block Volt. Min (V)	Pricing 1	10	100	500
26294	MOC3031	15mA	50	250	$1.09	$.99	$.89	$.79
113953	MOC3032	10mA		250	1.09	.99	.89	.79
113961	MOC3042	10mA		400	1.15	1.05	.95	.85
133874	MOC3063	5mA		600	1.49	1.25	1.09	.99

Triac Couplers *Single Channel (6-Pin DIP)*




- Infrared emitter and light activated silicon bilateral switch
- Isolation voltage (KV): 7.5 (pk); 5.3 (rms)

Part Number	Product Number	Input Trig. Curr. V_D=3V (Max)	Cont. Fwd. Curr. Max (mA)	Peak Block Volt. Min (V)	Pricing 1	10	100	500
26278	MOC3010	15mA	60	250	$.49	$.45	$.39	$.35
95020	MOC3011	10mA		250	.55	.49	.45	.35
95038	MOC3021	15mA		400	.59	.55	.45	.39

We carry major manufacturers – call for OEM PRICING.

- Typical DC forward current 20mA
- Weight: .01 lbs.

[1]Reverse polarity to change color
† Has internal current limiting resistor

✳ Prepackaged: order in increments of 10, 100 or 1000



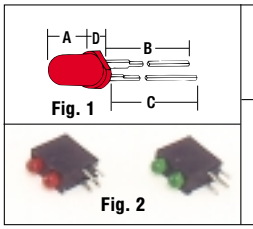


Fig. 1

Fig. 2

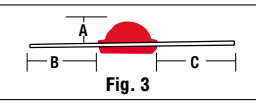


Fig. 3

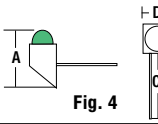


Fig. 4

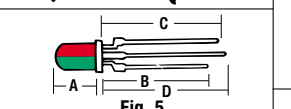


Fig. 5

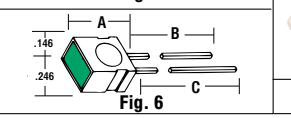


Fig. 6

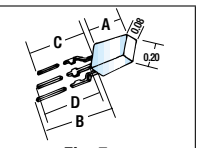


Fig. 7


Fig. 8

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions (Inches) A	B	C	D	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wave Length nm	Pricing 1	10	100	1000
26745	MV50	3	Red	Water clear	T 3/4	.083/2.1	0.06	0.25	0.25	—	0.11	1.7 @ 20	1.4 @ 20	660	$.39	$.35	$.29	$.25
176532	MV50G	8	Green	Water clear	T 3/4	.069/1.7	0.06	0.40	0.40	0.05	0.08	2.1 @ 20	300 @ 20	568	.39	.35	.29	.25
175708	HMLP-6014	8	Orange Red	Red diffused	T 3/4	.080/1.66	0.58	0.40	0.40	0.55	0.09	1.7 @ 20	1.4 @ 20	660	.39	.35	.29	.25
134869	RRL5621	3	Orange Red	Red diffused (5V)†	T 3/4	.083/2.1	0.09	0.37	0.65	—	0.10	5.0 @ 8	1.2 @ 8	650	✳	.19	.15	.10
114673	BR209	1	Red	Water clear	T1	.119/3	0.14	0.98	1.05	0.03	0.07	2.8 @ 20	12.0 @ 10	697	✳	.12	.09	.05
114681	BG209	1	Green	Water clear	T1	.119/3	0.14	0.98	1.05	0.03	0.07	2.8 @ 20	120.0 @ 20	563	✳	.15	.12	.09
142885	TFUW1204C	1	White	Water clear	T1	.119/3	0.22	0.84	0.90	0.04	0.08	3.6 @ 20	2300.0 @ 20	—	3.95	3.59	2.95	2.75
175679	LTL-232	1	Green	Green clear	T1	.119/3	0.17	0.69	0.76	0.03	0.08	2.1 @ 20	120.0 @ 20	563	✳	.15	.12	.09
136493	BY209	1	Yellow	Yellow clear	T1	.119/3	0.20	0.95	1.00	0.04	0.10	2.1 @ 20	19.0 @ 20	585	✳	.15	.10	.07
137411	LVB2040	1	Blue	Blue diffused	T1	.119/3	0.21	0.98	1.03	0.04	0.10	5.5 @ 20	7.0 @ 20	430	2.75	2.49	2.25	1.75
34606	XC209G★	1	Green	Green diffused	T1	.119/3	0.13	1.05	1.10	0.03	0.08	2.8 @ 20	15 @ 10	560	✳	.15	.10	.06
34657	XC209Y★	1	Yellow	Yellow diffused	T1	.119/3	0.16	0.68	0.76	0.04	0.08	2.0 @ 20	6.5 @ 10	585	✳	.15	.10	.06
34622	XC209R★	1	Orange Red	Red diffused	T1	.119/3	0.14	1.09	1.14	0.04	0.09	2.0 @ 20	1.5 @ 10	655	✳	.15	.10	.06
94529	XC209RB★	1	Red	Red diffused	T1	.119/3	0.18	1.04	1.13	0.03	0.07	2.0 @ 20	2.7 @ 20	700	✳	.19	.12	.09
123941	XC5391GY	1	Green/Yellow	White diff. bi-color/bi-state[1]	T1	.119/3	0.18	0.86	0.93	0.03	0.08	2.6 @ 10	2.0 @ 10	565/585	✳	.15	.10	.06
94553	XC5391	1	Red/Green	White diff. bi-color/bi-state[1]	T1	.119/3	0.18	1.06	1.12	0.03	0.08	2.8 @ 20	3.0 & 15 @ 10	697/565	✳	.19	.15	.12
136282	LXH240LIID	2	Orange Red	Red diffused dual	T1	.119/3	0.36	0.13	0.13	—	0.10	1.8 @ 5	1.0 @ 2	635	✳	.19	.15	.12
136274	LXH240LGGD	2	Green	Green diffused dual	T1	.119/3	0.36	0.13	0.13	—	0.10	2.1 @ 25	15.0 @ 20	565	✳	.19	.15	.12
104248	XC410R	4	Red	Red diffused	T1 3/4	.197/5	0.35	0.89	0.95	0.23	0.08	2.8 @ 20	6.5 @ 10	697	✳	.19	.15	.12
104264	XC410Y	4	Yellow	Yellow diffused	T1 3/4	.197/5	0.35	0.89	0.95	0.23	0.08	2.8 @ 20	2.5 @ 10	585	.29	.25	.19	.15
104256	XC410G	4	Green	Green diffused	T1 3/4	.197/5	0.35	0.89	0.95	0.23	0.08	2.2 @ 20	6.0 @ 10	570	.29	.25	.19	.12
142893	TFUW83C	1	White	Water clear	T1 3/4	.197/5	0.34	0.79	0.88	0.04	0.08	3.6 @ 20	3700.0 @ 20	—	3.95	3.59	2.95	2.75
34745	XC554R★	1	Red	Water clear	T1 3/4	.197/5	0.30	1.00	1.12	0.04	0.08	2.8 @ 20	7.5 @ 10	697	✳	.15	.10	.08
11797	BR5704★	1	Red Super Bright	Water clear	T1 3/4	.197/5	0.29	1.05	1.11	0.03	0.07	2.0 @ 20	80.0 @ 20	660	✳	.15	.10	.07
175695	LTL-4258	1	Yellow	Water clear	T1 3/4	.197/5	0.30	1.07	1.15	0.03	0.08	2.1 @ 20	220.0 @ 20	595	.29	.25	.19	.15
153138	LT2KJ3-UR-S14	1	Orange	Water clear	T1 3/4	.197/5	0.36	0.90	0.95	—	0.10	2.4 @ 20	2500.0 @ 20	621	.49	.45	.39	.29
131895	TLSH180P	1	Orange Ultra Bright	Water clear	T1 3/4	.197/5	0.39	0.80	0.86	0.06	0.10	2.1 @ 20	7000.0 @ 20	623	2.49	2.25	1.75	1.49
137613	LVB3333	1	Blue Super Bright	Water clear	T1 3/4	.197/5	0.34	0.98	1.03	0.04	0.08	5.5 @ 20	190.0 @ 20	430	2.75	2.49	2.25	1.95
134332	383UBC	1	Blue Super Bright	Water clear	T1 3/4	.197/5	0.30	0.93	1.00	0.04	0.10	5.0 @ 20	1980.0 @ 20	430	2.95	2.75	2.25	1.95
11359	BG5704★	1	Green Super Bright	Water clear	T1 3/4	.197/5	0.30	1.04	1.12	0.04	0.07	2.1 @ 20	40.0 @ 20	555	✳	.19	.12	.08
153154	HLMP-8509	1	Green	Water clear	T1 3/4	.197/5	0.36	0.90	0.95	—	0.10	2.2 @ 20	300.0 @ 20	568	.29	.25	.19	.15
153146	LT2K33-URP-8	1	Yellow	Water clear	T1 3/4	.197/5	0.36	0.90	0.95	—	0.10	2.4 @ 20	9300.0 @ 20	595	.59	.49	.45	.35
175687	LTL-10234	1	Green	Green clear	T1 3/4	.197/5	0.24	1.07	1.14	0.05	0.07	2.0 @ 20	40 @ 20	555	✳	.19	.12	.08
138691	LVB3330★	1	Blue	Blue diffused	T1 3/4	.197/5	0.34	0.98	1.03	0.06	0.08	5.5 @ 20	10.0 @ 20	430	2.75	2.49	1.95	1.75
34761	XC556G★	1	Green	Green diffused	T1 3/4	.197/5	0.31	0.79	0.88	0.04	0.09	2.8 @ 20	12.0 @ 10	565	✳	.12	.09	.05
107393	XC556A★	1	Orange Red	Orange diffused	T1 3/4	.197/5	0.30	1.02	1.08	0.04	0.08	2.8 @ 20	12.0 @ 20	635	✳	.15	.10	.06
34825	XC556Y★	1	Yellow	Yellow diffused	T1 3/4	.197/5	0.30	0.82	0.84	0.03	0.07	2.8 @ 20	0.5 @ 10	585	✳	.15	.10	.06
94511	XC556RB★	1	Red	Red diffused	T1 3/4	.197/5	0.31	0.81	0.86	0.04	0.08	2.8 @ 10	4.0 @ 10	697	✳	.15	.10	.06
34796	XC556R★	1	Orange Red	Red diffused	T1 3/4	.197/5	0.30	0.62	0.68	0.04	0.08	2.0 @ 20	1.5 @ 10	655	✳	.15	.10	.06
135597	LTL307E	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	1.00	1.05	0.03	0.07	2.8 @ 20	19.0 @ 10	635	✳	.19	.12	.09
94561	XC5408	1	Green	Green diffused/flashing	T1 3/4	.197/5	0.30	1.05	1.11	0.04	0.08	1.2 @ 20	17.0 @ 20	565	.49	.45	.39	.29
34690	XC5410★	1	Red	Red diffused/flashing	T1 3/4	.197/5	0.30	0.94	0.98	0.04	0.07	1.2 @ 20	2.8 @ 20	697	.49	.45	.39	.29
138860	LFH3363	1	Red	Water clear/flashing†	T1 3/4	.197/5	0.35	1.06	1.15	0.04	0.10	3-15 @ 20	7.5 @ 20	697	.49	.45	.39	.29
34673	XC52RG★	5	Red/Green	White diff. bi-color/tri-state[1]	T1 3/4	.197/5	0.30	1.02	1.05	1.12	0.03	2.8 @ 20	3.0 & 12 @ 10	697/565	.29	.25	.19	.12
34711	XC5491★	1	Red/Green	White diff. bi-color/bi-state[1]	T1 3/4	.197/5	0.30	1.01	1.06	0.04	0.09	2.8 @ 20	4.5 @ 20	695/565	.29	.25	.19	.12
119634	LT9552L	1	Red Super Bright	Red diffused Jumbo	T2 1/2	.315/8	0.44	0.84	1.00	—	0.07	2.4 @ 20	100.0 @ 20	660	.29	.25	.19	.12
137621	LVG3930N	1	Green	Green diffused Jumbo	T2 1/2	.315/8	0.43	1.04	1.09	0.07	0.07	1.7 @ 20	40.0 @ 20	565	✳	.19	.15	.12
98984	XC10G★	1	Green	Green diff. XJumbo	T3 1/4	.394/10	0.40	1.07	1.17	0.12	0.08	2.8 @ 20	40.0 @ 20	565	✳	.19	.15	.12
138683	XC10RB★	1	Red	Red diffused XJumbo	T3 1/4	.394/10	0.40	1.04	1.08	0.07	0.10	1.5 @ 20	200.0 @ 20	660	.29	.25	.19	.15
98992	LY3630★	1	Yellow	Yellow diff. XJumbo	T3 1/4	.394/10	0.54	1.04	1.11	0.08	0.08	2.1 @ 20	8.0 @ 20	585	.29	.25	.19	.15
104889	XC620RG	7	Red/Green	White diff. bi-color rect.	2x5	—	0.27	1.02	1.05	1.13	0.08	2.2 @ 20	3.5/6 @ 10	695/570	✳	.15	.12	.09
94545	XC57124G	6	Green	Green diffused rectangular	3.5x6	—	0.26	1.06	1.11	—	0.08	2.2 @ 20	5.0 @ 20	565	.35	.29	.25	.19
34850	LT7341R-81	6	Orange Red	Red diffused rectangular	3.5x6	—	0.27	0.85	0.93	—	0.07	2.0 @ 20	10.1 @ 20	635	.35	.29	.25	.19

Ledtech is a QS9000 and ISO9000 Certified Company

- Typical DC forward current 20mA
- Weight: .01 lbs.

✳ **Prepackaged: order in increments of 10, 100 or 1000**

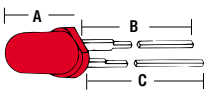


Fig. 1

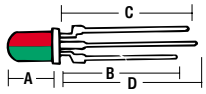


Fig. 2


152864

151415 

Part Number	Product Number	Fig.	Emitting Color	Lens/Feature Description	LED Size	Diameter inch/mm	Dimensions (Inches) A	B	C	D	Lead Spacing	Typical Vf @ If (mA)	Typical mcd @ mA	Wave Length nm	Pricing 1	10	100	1000
156929	LT0321-41-HE	1	Green	Green diffused	T1	.118/3	0.16	0.88	0.94	—	0.10	2.1 @ 20	13.3 @ 20	567	✳	$.15	$.12	$.09
156937	LT0331-41	1	Yellow	Yellow diffused	T1	.118/3	0.16	0.88	0.94	—	0.10	2.1 @ 20	11 @ 20	585	✳	.15	.12	.09
156945	LT0362-25-D61	2	Red/Green	White diff, bi-color tri-state	T1	.119/3	0.16	0.87	0.94	1.0	0.08	2.1 @ 20	14/3 @ 20	700/567	.29	.25	.19	.15
156953	LT0373-41	1	Red Supr Brt	Water clear	T1	.119/3	0.21	1.07	1.14	—	0.08	1.7 @ 20	600 @ 20	660	✳	.15	.12	.09
152768	LT0324-41	1	Green	Green clear	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	20 @ 20	567	✳	.12	.09	.07
152750	LT0344R-41	1	Orange Red	Red clear	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	23.5 @ 10	635	✳	.12	.09	.07
152784	LT0341R-41	1	Orange Red	Red diffused	T1	.119/3	0.20	0.89	0.95	—	0.10	2.1 @ 20	6.9 @ 10	635	✳	.12	.09	.07
152792	LT1833-81M1	1	Yellow Supr Brt	Water clear	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	2.1 @ 20	420 @ 20	595	.35	.29	.25	.19
152821	LT1821-81-HE	1	Green	Green diffused	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	2.2 @ 20	100 @ 20	567	✳	.15	.12	.09
156961	LT1823-81-HE	1	Green	Water clear	T1 3/4	.197/5	0.34	0.87	0.97	—	0.10	2.2 @ 20	500 @ 20	567	✳	.15	.12	.09
152830	LT1831-81UR	1	Yellow Ultra Brt	Yellow diffused	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	2.1 @ 20	400 @ 20	595	.49	.45	.39	.29
152856	LT1841R-81	1	Orange Red	Red diffused	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	2.1 @ 20	10.3 @ 10	635	✳	.12	.09	.06
152864	LT1873-81	1	Red Supr Brt	Water clear	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	1.7 @ 20	1000 @ 20	660	✳	.15	.12	.09
152805	LT1873-81-UR	1	Red Ultra Brt	Water clear	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	1.9 @ 20	2000 @ 20	660	.35	.29	.25	.19
156970	LT1873-UR-C07	1	Red Ultra Brt	Water clear (wide angle)	T1 3/4	.197/5	0.34	0.89	0.95	—	0.10	1.9 @ 20	2112 @ 20	660	.35	.29	.25	.19
						Size (L" x H" x T")					Pins							
151415	LTIF24-A2-S1	–	Green	Backlight, white diffused		2.05 x 0.78 x 0.09					8	6.0 @ 20	6.0 @ 20	567	2.95	2.49	1.95	1.49

LED Accessories

JAMECO® LED Mounting Hardware

- P/N 95521: for use with rectangular LEDs with case size 0.244"L x 0.145"W x 0.270"H

✳ **Prepackaged: please order in increments of 10, 100 or 1000**


95513 23077 95521

Part No.	Product No.	Description	Color	Mounting Hole (in.)	Panel Thickness	Pricing 1	10	100	1000
95513	LMH100★	T1 snap-in	black	.185	up to .070"	✳	$.11	$.08	$.06
23077	LMH200★	T1 3/4 ring & clip	black	.257	up to .125"	✳	.11	.08	.06
95521	LMH250	Rect. snap-in	black	.306 x .202	up to .092"	✳	.11	.08	.06

T1 & T1 3/4 Cliplite® LED Mounting Hardware

- Material: lens – polycarbonate; spacer – nylon
- Increases apparent brightness up to 125% and viewing angle up to 180˚ with either diffused or nondiffused LEDs
- Helps guard components from electrostatic discharge up to 16KV while affording the LED physical protection
- .375" centers spacing

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Reduced Pricing


29612

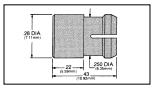
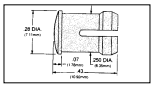
Figure 1 (5mm) 

Figure 2 (5mm) 

Part No.	Product No.	Description	Color	Figure	Mounting Hole (in.)	Panel Thickness	Pricing 1	10	100	1000
124919	SML190RTP	T1	red	1	.25	.063" –.125"	✳	$.19	$.15	$.12
14277	CTP280	T1 3/4	clear	1	.25	.063" –.125"	.25	.22	.19	.15
109137	GTP280	T1 3/4	green	1	.25	.063" –.125"	✳	.19	.12	.10
29612	RTP280	T1 3/4	red	1	.25	.063" –.125"	.25	.22	.19	.15
124927	CLB300CTP	T1 3/4	clear	2	.25	.031" – .25"	.25	.22	.19	.15
124951	CLB300RTP	T1 3/4	red	1	.25	.031" – .25"	.25	.22	.19	.15

Ledtech Backlight LED



- Backlight, white diffused
- Emitting color: green
- Pins: 8
- Typical 6.0Vf @ 20If (mA)
- Typical 6.0mcd @ 20mA
- Wavelengh: 567nm • Size: 2.05"L x 0.78"H x 0.09"T

Part No.	Product No.	1	10	100	1000
151415	LTIF24-A2-S1...	$2.95	$2.49	$1.95	$1.49

LED Grab Bag

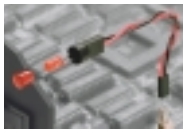
- 1900 piece assortment
- Various sizes
- Various colors

More Grab Bags on page 23



Part No.	Product No.	Wt. (lbs)	1	10	25
135271	GB110LB	1.0	$39.95	$35.95	$29.95

Conxrite® Cable Assemblies for T1 and T1 3/4 LEDs



T1 LED Cable Assemblies

- Use with lens P/N 143183 (above)

Part No.	Product No.	Cable Lgth	1	10	100	1000
143087	BE2108	8.5"	$1.49	$1.25	$1.09	$.99
143095	BE2112	12"	1.49	1.25	1.09	.99

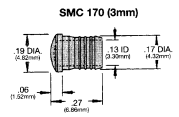
T1 3/4 LED Cable Assemblies

- Use with lens P/N 143132 (above)

Part No.	Product No.	Cable Lgth	1	10	100	1000
143036	CE2108	8.5"	$1.49	$1.25	$1.09	$.99
143044	CE2112	12"	1.49	1.25	1.09	.99
143052	CE2118	18"	1.75	1.49	1.25	1.09

T1 Cliplite® Lens

- Use with P/N 143087 and 143095 (LED T1 cable assemblies – below)

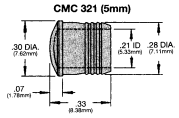


✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Color	10	100	1000
143183	SMC170CTP	Clear ✳	$.19	$.17	$.15

T1 3/4 Cliplite® Lens

- Use with P/N 143036, 143044 and 143052 (LED T1 3/4 cable assemblies – below)



✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Color	10	100	1000
143132	CMC321CTP	Clear ✳	$.17	$.15	$.12

Design Engineer's 139 Piece LED Hardware Assortment

Allows you to mount LEDs for different applications and designs. Eliminates soldering, shrink tubing and terminal crimping.



- 139 piece hardware kit for T1 and T1 3/4 LEDs
- Clear plastic case w/ dividers
- Size: 8.5"L x 4.5"W x 1.5"H • Weight: 0.4 lbs.

Includes: LED panel lenses and mounts	• Colors: clear, red, yellow, green and blue • Shapes: round, square • Retainers
Pre-wired solderless LED interconnection	• Varied lengths • Standard header pin connector termination • Crimp type removable connector pins
LED PCB mounts, sockets and standoffs	• Vertical and horizontal mount • Various height LED standoffs • SMT-type connectors • Through hole type connetors • Resistor-type connectors z

Part No.	Description	Price
140759	Engineer's LED hardware kit	$17.95

Panel Mount LED Indicators

- Easy panel installation
- Panel/status/instrument indicators
- Panel (Vf @ If): 2V @ 20mA
- Color: red • Weight: 0.01 lbs.

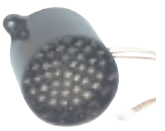

141111


141129/141137

Part No.	Product No.	Mounting Hole (in.)	1	10	100	1000
141111	L922SRD	.23	$.79	$.65	$.49	$.39
141129	L913RD	.24	.79	.65	.49	.39
141137	L917RD	.31	.79	.65	.49	.39

Cluster Type T1 3/4 LED Lamps

- Cluster type red/green T1¾ LEDs
- Lens: water clear • 3 lead wires
- 660nm for red/570nm for green
- Common anode
- Mounting screws


150914

150922: • 8 green/6 red
- Vf @ If (mA): 10 @ 20
- 1950 mcd @ 20mA • 7" lead wire
- Size: 1.02"Dia. x 1.51"L • Weight: 0.1 lbs.

150914: • 30 green/20 red
- Vf @ If (mA): 20.5 @ 40
- 12000 mcd @ 40mA • 16" lead wire
- Size: 2.07"Dia. x 1.98"L • Weight: 0.2 lbs.

Part No.	Product No.	Mtng Hole	1	10	25	100
150922	LCR2614B-79	M3	$3.95	$3.55	$3.19	$2.89
150914	LCR5250A-79	M4	17.95	14.95	13.49	11.95

JKL Single Lead Tipless Type Fluorescent & Ultra Violet Lamps

World's smallest fluorescent and ultra violet lamps. These energy efficient miniature lighting innovations assure you of bright, uniform output, long life, cool operation and unmatched reliability, with the convenience of off-the-shelf availability.


142244


146202


142965

142244/142965: compatible with P/N 142252 (below)
146165/146157: compatible with P/N 146190 (below)
146202: requires 15KΩ series resistor, runs off line voltage

Fluorescent Lamps

* Circuit voltage

Part Number	Starting Volt. (Vrms)	Lamp Volt. (Vrms)	Intensity (nt)	Lamp Current (mA)	Size (in.) L x Dia.	Weight (lbs.)	1	10	25
146202	75 (max.)	115*	—	3.0	0.9 x .23	0.01	$2.95	$2.49	$1.95
142244	390	170	3500	5.0 (12 max.)	2.0 x .25	0.01	12.95	11.49	10.25
146157	850	345	2400	5.0	6.3 x .12	0.07	12.95	11.49	10.25
146165	1200	520	28000	5.0	10.0 x .12	0.10	12.95	11.49	10.25

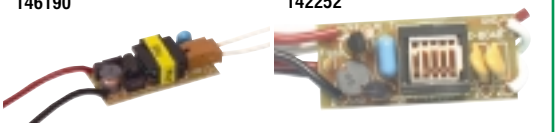
Ultra Violet Lamp

Part Number	Starting Volt. (Vrms)	Lamp Volt. (Vrms)	Total Output Flux	Lamp Current (mA)	Size (in.) L x Dia.	Weight (lbs.)	1	10	25
142965	900	195	.25mW/cm² @ 1"	2.5	2.0 x .12	0.01	$10.95	$9.95	$8.95

JKL Fluorescent Lamp Power Supplies

These DC inverters are designed especially for cold cathode fluorescent lamps.

146190 142252



- Output voltage:

146190: 600Vrms @ 4mA, 30kHz
142252: 850Vrms @ 5.5A, 20kHz

Part No.	Product No.	Input Voltage	PCB Size (W x H x T)	Weight (lbs.)	1	10	25
146190	65010	5VDC @ 200mA	1.7" x 0.8" x .04"	0.02	$14.95	$13.49	$11.95
142252	12200	12VDC @ 260mA	1.8" x 0.8" x .04"	0.03	14.95	13.49	11.95

Incandescent Lamps

Incandescent Lamps

- Average life hours 10,000-50,000 hours
- P/N 141006/141073/141065: C2R filament type


141006


141065

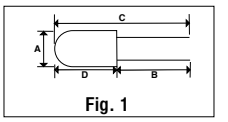


Fig. 1

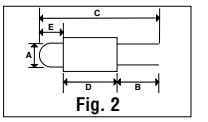


Fig. 2

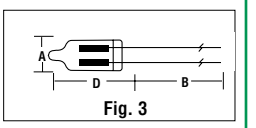


Fig. 3

Part No.	Product No.	Fig.	Size	Description	Dia.(Ins./mm) A	Dimensions (Ins.) B	C	D	E	Vf @ If (mA)	Pricing 1	10	100	1000
141057	6833	1	T 3/4	Incandescent lamp (1" lead wire)	.08/2.2	1	1.2	0.2	—	5 @ 60	$.45	$.35	$.29	$.19
141065	2200	1	T1 3/4	Incandescent lamp (1" lead wire)	.19/4.9	1	1.5	0.5	—	5 @ 60	.29	.25	.19	.15
141073	2182	1	T1 3/4	Incandescent lamp (1" lead wire)	.19/4.8	1	1.5	0.5	—	14 @ 80	.29	.25	.19	.15
141006	7361	2	T1 3/4	Incandescent lamp bi-pin base	.18/4.7	0.3	0.8	0.3	0.3	5 @ 60	.49	.39	.29	.19
27351	NE2	3	—	Neon lamp (req.150kΩ res. in series)	.197/5	1.2	—	0.38	—	65-120VDC @ 130-470mA/ 65-120VAC @ 150-500mA	.39	.29	.25	.19

Infrared Diodes and Detectors

Infrared Diodes and Visible Light Detectors

- Use for remote control or fiber optics
- P/N 133946 can be used w/ cameras – see pg 150-152 (peak emission wavelength: 940nm @ I_F 20mA)

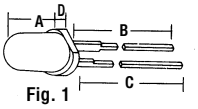


Fig. 1

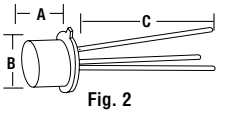


Fig. 2

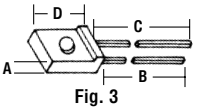


Fig. 3

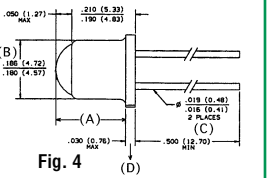


Fig. 4

106526



172321



Part Number	Product Number	Color	Fig.	Description	Size	Diameter inch/mm	Dimensions (inches) A	B	C	D	Vf @ If (mA)	nm	mWatts	Pricing 1	10	100	1000
112150	TLN100★	Infrared	1	Infrared diode	T1	.125/3	0.18	0.95	0.98	0.03	1.2V @ 20mA	940	1.2	$.39	$.29	$.19	$.12
112176	IRD300★	Infrared	1	Infrared detector	T1	.12/3	0.18	0.95	0.98	0.03	—	940	—	.39	.29	.19	.12
133946	SLI-0308CP	Infrared	1	Infrared diode lamp	T1	.12/3	0.22	0.98	1.00	0.03	1.7V @ 50mA	940	100	.69	.59	.45	.35
106526	TLN110★	Infrared	1	Infrared diode	T1¾	.200/5	0.34	0.78	0.84	0.04	1.6V @ 20mA	940	9	.45	.35	.25	.15
112168	IRD500★	Infrared	1	Infrared detector	T1¾	.200/5	0.31	1.05	1.10	0.04	—	940	—	.45	.35	.25	.15
120221	BPW77	—	2	Visible light detector	TO-18	—	0.24	0.19	0.52	—	—	800	—	.99	.89	.75	.59
172321	OP133	Infrared	4	Infrared emitter	TO-46	—	0.22	0.18	1.05	0.2	1.8V @ 100mA	935	5	2.49	2.25	1.95	1.75
124020	TP104	Infrared	3	Photo transistor	Rect.	0.16/4	0.09	0.45	0.45	0.16	—	850	—	.35	.29	.19	.12

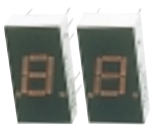
We carry major manufacturers – call for large OEM pricing.

LED Displays

The general advantages of LED displays (compared to incandescent types) are:

• Lower power consumption • Longer lifetime (averaged more than 300,000 hours) • Compact size which is suitable for instrumentation and graphic representations

Soldering: • Soldering bath: not more than 5 seconds @ 260°C • Soldering iron: not more than 3 seconds @ 300°C under 30W


24740 & 24782


18753


27545


17187


24723


18737


32951


118906

† PC board mounted

7-Segment Displays

Part Number	Mfgs. New Product Number	Jameco's Old Product Number	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point	Pricing 1	10	100	1000
24731★	LSD3021-11	MAN71	.300"	Red	CA	11	1.9 @ 20	0.3 @ 20	697	RHDP	$.99	$.85	$.69	$.55
24740★	LSD3221-11	MAN72	.300"	Red	CA	11	2.1 @ 20	2.5 @ 20	697	LHDP	.89	.75	.65	.49
152012	MAN3620	MAN3620	.300"	Orange	CA	11	2.5 @ 20	0.5 @ 10	630	LHDP	.39	.35	.25	.12
151976	LTS312AY	3005-03	.300"	Yellow	CA	11	2.8 @ 20	2.0 @ 10	585	LHDP	.39	.35	.25	.12
24782★	LSD3211-11	MAN74	.300"	Red	CC	10	2.1 @ 20	2.5 @ 20	697	RHDP	.89	.75	.65	.49
27545	NSN373	NSN373 †	.300"	Red	2-digit CC	16	1.7 @ 10	1.6 @ 20	660	—	.39	.35	.25	.12
17187★	LSD5051-11	CSS5103H1-21	.500"	Red	CC	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75	.65	.49
17208★	LSD5061-11	FND507	.500"	Red	CA	10	2.1 @ 20	0.9 @ 20	697	RHDP	.89	.75	.65	.49
104213	LSD5124-10	LTS5301R	.560"	Orange Red	CA	10	2.0 @ 20	2.4 @ 20	635	RHDP	.65	.55	.49	.45
24715★	LDD5121-20	CSD524H-22	.560"	Red	2-digit CA	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24723★	LDD5111-11	MAN6740	.560"	Red	2-digit CC	18	2.1 @ 20	0.8 @ 20	697	RHDP	1.25	1.05	.89	.75
24694	LDD5124	CSD524E-33	.560"	Orange Red	2-digit CA	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.49	1.25	.99	.89
24707	LDD5114-20	CSD525E-63	.560"	Orange Red	2-digit CC	18	2.0 @ 20	2.4 @ 20	635	RHDP	1.49	1.25	.99	.89
18737★	LSD816-11	LTS3401LE	.800"	Orange Red	CA	13	1.6 @ 20	0.9 @ 20	655	RHDP	1.25	1.05	.79	.59
18753★	LSD8151-10	LTS3405	.800"	Red	CC	13	2.1 @ 20	1.0 @ 20	697	LHDP	1.25	1.05	.79	.69
176559	C8021-1	—	.800"	Green	CC	13	2.0 @ 20	0.9 @ 20	568	RHDP	.99	.85	.69	.55
97172	LSD10061-10	CSS1014H	1.0"	Red	CA	10	2.1 @ 20	2.0 @ 20	697	RHDP	1.39	1.19	.89	.79
97199	LSD23265-10	CSS2314D	2.24"	Red	CA	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.49	3.25
97201	LSD23255-10	CSS2315D	2.24"	Red	CC	10	1.7 @ 20	21 @ 20	660	RHDP	4.49	3.95	3.25	2.95
105591	LSD40054-20	CSS4013E	4.0"	Orange Red	CC	10	2.0 @ 20	1.8 @ 20	635	RHDP	8.95	7.95	6.95	6.25

Dot Matrix Displays

Part Number	Mfgs. New Product Number	Jameco Sockets	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point	Pricing 1	10	100	1000
173833	HP5082-7300	—	.290"	Red	4x7 Hex character	8	5.0 @ 170	.03 @ 20	640	RHDP	$7.95	$6.95	$6.25	$5.59
32951	TIL311	37161	.300"	Red	4x7 Hex character	11	5.0 @ 5	0.1 @ 5	660	—	15.95	14.95	13.95	12.95
118906★	LTP747R	37161	.680"	Orange Red	5 x 7 AC/CR	12	1.7 @ 20	0.2 @ 20	655	—	2.95	2.49	1.49	1.25
100028	LTP2158DHR	101282	2.3"	Red	5 x 8 CC/AR	14	1.8 @ 20	4 @ 20	660	—	3.95	3.25	2.95	2.75

*CA-Common Anode / CC-Common Cathode • LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point • AC/CR-Anode Column/Cathode Row

LED Displays

The advantages of LED displays (compared to incandescent types) are:

• Lower power consumption • Longer lifetime (averaged more than 300,000 hours)

• Compact size, suitable for instrumentation and graphic representations

• **Soldering:** (bath) not more than 5 seconds @ 260˚C; (iron) not more than 3 seconds @ 300˚C under 30W

* CA – Common Anode / CC – Common Cathode


152944


152979


161470


161517

7-Segment Displays

Part Number	Product Number	Compatible with Jameco Sockets	Character Height	Illuminated Color	Buss Polarity*	Pins/ Leads	Typical Vf @ If (mA)	Typical mcd @ mA	Wavelength nm	Decimal Point	Pricing 1	10	100	1000
152944	LA3051-16 (Ledtech)	37161	.300"	Red	CA	11	2.1 @ 20	0.8 @ 10	700	L/RHDP	$.99	$.89	$.69	$.59
161461	LN514YA (Panasonic)	37161	.430"	Yellow	CA	10	2.2 @ 20	0.6 @ 10	590	RHDP	.55	.49	.39	.25
161470	LN514YK (Panasonic)	37161	.430"	Yellow	CC	10	2.2 @ 20	0.6 @ 10	590	RHDP	.55	.49	.39	.25
161509	LN524YA (Panasonic)	101282	.430"	Yellow	2-digit CA	10	2.2 @ 20	0.6 @ 5	700	RHDP	.55	.49	.39	.25
161496	LN516YA (Panasonic)	101282	.560"	Yellow	CA	10	2.2 @ 20	0.8 @ 10	590	RHDP	.99	.89	.69	.59
161488	LN516YK (Panasonic)	101282	.560"	Yellow	CC	10	2.2 @ 20	0.8 @ 10	590	RHDP	.99	.89	.69	.49
152961	LA5621-11 (Ledtech)	101282	.560"	Green	CA	10	2.1 @ 20	2.9 @ 10	567	RHDP	.99	.89	.69	.59
161517	LN516RK (Panasonic)	101282	.560"	Red	CC	18	2.2 @ 20	0.6 @ 10	590	RHDP	.85	.75	.69	.59
152979	LC5641R-11 (Ledtech)	101282	.560"	Orange Red	CC	10	2.1 @ 20	3.3 @ 10	635	RHDP	1.05	.89	.79	.65

Scott Edwards Serial LCD Modules

- Includes instruction codes for character generation, cursor control, printing, etc. (examples for stamps in PBASIC included)
- One-year warranty

Ideal for use with BASIC Stamps, 80C52-BASIC controllers and PCs!

16 characters x 2 lines Integrated Display



- Terminal style 1200–9600 bps serial input with 16-byte input buffer
- Four inputs for switches/buttons that can be read via the serial connection
- EEPROM storage of settings, six custom characters, and a text screen that can be automatically displayed at startup (splash screen)
- Serial control of the standard LED backlight
- Low current draw; 5mA (backlight off) to 40mA (backlight on and bright)
- Module size: 3.2"L x 2.0"W x 0.5"T • Weight: 0.1 lbs.

Part No.	Description	1	10	25
150990	LCD module	$59.95	$53.95	$47.95

16 characters x 2 lines LCD Serial Backpack®



- High-contrast supertwist display
- Serial "backpack" accepts RS232, or inverted CMOS, TTL at 2400 or 9600 bps
- Power requirement: 4.8 - 5.5VDC @ 3mA
- Size: 3.1"L x 1.4"W • Weight: 0.1 lbs.

Part No.	Description	1	10	25
133129	LCD module	$54.95	$49.95	$44.95

20 Characters x 4 Lines Graphics LCD



- 120x32 pixel graphics screen
- Terminal style 2400 or 9600 bps serial input
- EEPROM stores text font and 6 full-screen images
- Supports multiple fonts and font sizes
- Included utility program lets you create and download pictures and fonts
- Requires 9V battery or transformer – recommend P/N 151095 (pg 74)/103528 (pg 87)
- Includes battery snap connectors, sample programs and user's manual on disk
- Module size: 3.1"L x 1.9"W x 0.8"T • Weight: 0.3 lbs.

Part No.	Description	1	10
158166	20x4 serial LCD display	$129.95	$116.95

40 characters x 4 lines LCD Serial Backpack®



- High-contrast supertwist display with unique "big character" mode – prints 1" numbers and letters automatically
- Serial input at 1200, 2400, 4800 or 9600 bps
- Power requirement: 5VDC @ <10mA
- Module size: 7.5"L x 2.2"W • Weight: 0.2 lbs.

Part No.	Description	1	10
136485	40x4 serial LCD display	$169.95	$152.95

Point Six 16x4 Parallel LCD Module



- 16x4 character display (.78"H)
- Character font: 5 x 8 dots
- Power requirement: 4.5V @ 2mA
- Input data: 40-bit or 8-bit interface available
- Display size: 2.4"L x 1.0"W x 0.06"T
- Module size: 3.4"L x 2.4"W x 0.25"T • Wt.: 0.12 lbs.

Part No.	Description	1	10	25
151933	16x4 parallel LCD	$19.95	$17.95	$14.95

Ampire / Point Six LCD Parallel Displays

- Maximum input voltage: 5.3VDC
- Operating input voltage: 5VDC
- 8-bit interface data bus
- Controller: KS0066U or equivalent
- Character font size: 0.125"W x 0.200"H
- Weight: 0.1 lbs.



171715



171723

171715: 16 Characters x 2 Lines • 14-pin/terminals
- Display size: 2.5"L x 0.7"W
- Module size: 3.4"L x 1.2"W x 0.5"T

171723: 20 Characters x 2 Lines • 16-pin/terminals
- Display size: 3.3"L x 0.7"W
- Module size: 4.6"L x 1.5"W x 0.4"T

Part No.	Product No.	1	10	25
171715	AC162A	$14.95	$13.49	$11.95
171723	AC202A	19.95	17.95	15.95

Matrix Orbital Serial LCD Modules

- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature



174174

- Serial input at 1200 to 19,200bps (jumper selectable)
- Connect 16 modules using the same 2 wire interface
- Includes manual and software • Weight: 0.6 lbs.

174166: 16 characters x 2 lines serial LCD module with keypad interface
- Power requirements: 5VDC@9mA
- Backlight supply current: 40mA typical
- Display size: 2.5"L x 0.7"W
- Module size: 3.2"L x 1.5"W x 0.8"T

174174: 20 characters x 2 lines serial LCD module with keypad interface
- Power requirements: 5VDC@11mA
- Backlight supply current: 90mA typical
- Display size: 3.2"L x 0.7"W
- Module size: 4.6"L x 1.5"W x 0.7"T

Part No.	Description	1	10	25
174166	16 x 2 w/ interface	$59.95	$54.95	$49.95
174174	20 x 2 w/ interface	99.95	89.95	80.95

Matrix Orbital 20x4 Serial LCD Modules

- 20 characters x 4 line display with large digit mode
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature



150957

- Backlight supply current: 90mA typical
- Serial input at 1200-19200bps (jumper selectable)
- Connect 16 modules using the same 2 wire interface
- Includes manual and software



157323

- Display size: 3.0"L x 1.0"W • One-year warranty

150957: 20x4 Serial LCD Module
- Power requirements: 5VDC @ 10mA typical
- Module size: 3.9"L x 2.4"W x 0.7"T • Weight: 0.9 lbs.

157323: 20x4 Serial LCD Module w/ keypad Interface
- Power requirements: 5VDC @ 16mA typical
- Module size: 3.7"L x 2.4"W x 1.1"T • Weight: 0.6 lbs.

Part No.	Description	1	10	25
150957	LCD module	$89.95	$80.95	$72.95
157323	Module w/ interface	109.95	99.95	89.95

Matrix Orbital 20 Characters x 4 Lines Serial LCD Display

Vacuum Fluorescent with Keyboard Interface



- 20 characters x 4 lines with large digits and bar graph mode
- Bar graphs, large digits multiple displays, software contrast control, auto line wrapping and scroll feature
- Power off supply current: 9mA
- Power requirements: 5VDC@275mA (typical)
- Serial input of 1200bps to 19,200bps (jumper selectable)
- Includes manual and software
- Display size: 2.8"L x .82"W
- Module size: 3.9"L x 2.4"W x 1.0"T

Part No.	Product No.	1	10	25
174158	VFD2041	$179.95	$164.95	$149.95

HYUNDAI 24 Characters x 2 Lines

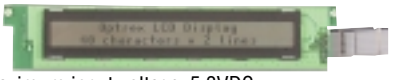
Parallel LCD Display



- Display mode: TN, positive
- Character font: 5 x 7 dots
- Logic supply voltage: 5.3 maximum
- LCD operating voltage: 4.8V max.
- Viewing angle 70 – 90 degrees
- Input data: 4-bit or 8-bit interface available
- Driving method: 1/16 duty, 1/5 bias
- Display size: 4.0"L x 1.1"W x 0.2"T
- Module size: 4.7"L x 1.4"W x 0.3"T
- Weight: 0.1 lbs.

Part No	Product No.	1	10	25
173526	HC24201	$19.95	$17.95	$15.95

Optrex 40 Characters x 2 Lines Parallel LCD Display



- Maximum input voltage: 5.3VDC
- Interface between data bus line or 4-bit or 8-bit MPU available
- Character font: 5 x 7 dots
- Display size: 6.4"L x 0.7"W x 0.2"T
- Module size: 8.4"L x 1.7"W x 0.4"T
- Weight: 0.2 lbs.

Part No.	Description	1	10	25
166983	40x2 parallel LCD	$24.95	$22.49	$19.95

Matrix Orbital Graphics LCD

40 characters x 8 line Maximum



- 40 characters x 8 lines maximum display with 5 x 7 font
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping, and auto scroll feature
- Backlight supply current: 160mA typical
- Power requirements: 5VDC@31mA typical
- Pixel layout: 240 x 64 pixels
- Serial input: 1200 to 19200bps (jumper configurable)
- Includes manual and software
- Display size: 5.2"L x 1.5"W • Weight: 0.9 lbs.
- Module size: 7.1"L x 2.6"W x 0.7"T

Part No.	Description	1	10	25
174182	Graphics display	$199.95	$179.95	$162.95

JAMECO 0.6" High 3½-Digit LCD Digital Panel Meters

108388 / 146835:
- Single 9VDC operation
- Maximum input: 199.9mVDC
- Maximum display: 1999 counts
- Accuracy: ±0.5%
- Automatic polarity indication
- Input impedance: >100MΩ
- Size: 2.7"L x 1.7"W
- Weight: 0.1 lbs.


108388


146835

175951: • Includes bezel
146835: • Backlit display • Includes bezel


123140

123140: • Supply voltage: 9-12VDC – recommend P/N 151095 (9V battery) – pg 74


175951

• *See page 104 for panel meter enclosure*

Part No.	Description	1	10	25
108388★	3.5 LCD DPM	$14.95	$13.49	$11.95
175951	3.5 LCD DPM	12.95	11.95	10.95
146835	3.5 LCD (Backlit)	17.95	15.95	13.95
123140	4.5 LCD DPM	27.95	24.95	22.49

TRISYS Serial LCD Interface Module

For Parallel LCD Displays with Hitachi 4480 Chipset



- Supports 1x8 up to 4x20 LCD display formats
- Provides word wrap, control character processing for display blanking, cursor blanking, up-down-left-right cursor controls
- Size: 1.5"L x 1.0"W • Weight: 0.02 lbs.

Part No.	Description	1	10
157981	LCD serial interface module	$22.95	$19.95

Micro Electronics LCD Dot Matrix Graphic Display



- 128 x 64 dot matrix display
- Display can be programmed to create a variety of sizes
- STN yellow green mode
- Operating voltage: 5V @ 1mA
- Operating current: .8mA on display mode and 1A on access mode (low power consumption)
- 180˚ viewing angle
- Built-in LCD driver IC: KS0708
- Easy interface with 8-bit MPU
- Size (module): 3.0"W x 2.0"H x 0.1"T
- Size (viewing area): 2.8"W x 1.6"H • Weight: 0.1 lbs.

Part No.	Description	1	10
163176	Dot matrix graphics display	$49.95	$44.95

VL 0.5" 3½ & 4-Digit Field Effect LCD Displays



- Compatible with socket P/N 101282 (2) (pg 55)
- Pin spacing: 0.1" centers
- 40-pin package (no connector required)
- Size: 2.0"L x 1.2"H x 0.1"D

17110: 4-Digit LCD
- Digital multimeters, thermometers, pressure gauges, timers, clocks (12 or 24 hour format) and frequency counters


17110

32230: 3½-Digit LCD
- Digital voltmeters, thermometers, pressure gauges, timers, clocks


32230

- Can be used with Intersil's 7106CPL (P/N 43748, pg 9)

Part No.	Description	1	10	25
17110	4-digit LCD w/ pins	$8.95	$7.95	$6.95
32230	3½-digit LCD w/ pins	8.95	7.95	6.95

Futaba 0.5" Blue Green Fluorescent Display



- 4-digit vacuum fluorescent display
- 10 bar indicators and a colon indicator
- Size: 3.9"L x 1.6"H x 0.8"W (leads: .75" long)

Part No.	Description	1	10	25
42112	4-digit display w/ colon	$4.49	$3.95	$3.49

TRIPLETT 195 Series Industrial DC Panel Meter



- Low cost, high quality
- DC range: 0-1mA
- Direct replacement for: Yokogawa, Modutec, Jewell, WPIC, Hoyt, Crompton, Brighton
- DC current and volt meters
- Basic DC Accuracy to 0.3%
- UL recognized
- Size: 2.5"L x 2.7"W x 2.7"H
- Depth: 1.9"
- TB = Taut Band
- Weight: 0.3 lbs.

Low Cost, High Quality!

Part No.	Product No.	DC Ranges	1	10
160696	1952DMA001T	0-1mA DC (TB)	$21.95	$19.49

Monarch Industrial Panel Meter

(0 to 1mA DC)



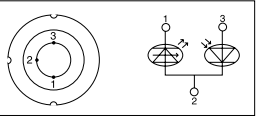
- Low cost, high quality
- Basic DC accuracy to 0.3%
- UL recognized
- Direct replacement for: Yokogawa, Modutec, Jewell, WPIC, Hoyt, Crompton, Brighton
- TB = Taut Band • Size: 1.5"L x 1.7"W x 1.7"H
- Depth: 1.2" • Weight: 0.2 lbs.

Part No.	Product No.	DC Ranges	1	10
171897	PMG6S	0 – 1mA (TB)	$9.95	$8.95

JAMECO Laser Products

650nm Orange Red Laser Diode

Pin Connection:
1.Laser Diode Cathode
2.Laser Diode Anode
Photodiode Cathode
3.Photodiode Anode



DANGER Class IIIa Laser Product



- Optical output power: ≤5mW maximum
- Operating current: 30mA
- Operating voltage: 2.6V maximum
- Lasting wavelength: 650nm typical
- 5.6mm packaging size
- Beam divergence of 11 degrees from center line maximum
- Compatible with collimating lens (P/N 126244) and driver (P/N 161736 right)
- One-year warranty

Part No.	Description	1	10	25
182932	650nm laser diode	$19.95	$17.95	$15.95

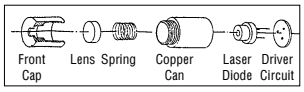
Information at Your Fingertips

Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

Laser Diode Accessories

126244: Collimating lens
- Assembly instructions:




126244

- Weight: 0.02 lbs.
- One-year warranty

161736: Laser driver w/ regulator
- Input voltage: 2.6-6VDC
- Input current: 40mA
- Six-month warranty


161736

Part No.	Description	1	10	25
126244	Collimating lens	$5.95	$5.49	$4.95
161736	Laser driver	6.95	6.25	5.59

670nm Red Laser Diode Module

Class IIIa Laser Product

- Operates on 3VDC @ <5mW
- 670nm wavelength
- Beam diameter: 3.2mm
- Working distance: over 50 meters/yards (daylight), 200 meters/yards (dark)



- Size: 0.8"L x 0.4"Dia.
- Weight: 0.02 lbs. • One-year warranty

Part No.	Description	1	10
131203	Laser module, brass	$39.95	$35.95

3-Element Glass Lens Red Laser Module

Class IIIa Laser Product



This lens design uses 3-element glass to collect almost all the power from the laser diode resulting in a brighter spot than many typical laser applications.
- Operating voltage: 4.0-6.0VDC (P/N 112070 pg 86)
- Wavelength: 660nm • Maximum output: 4mW
- Beam size at 7m: oval – 5mm x 8mm
- Beam divergence: 0.2mrad
- Module size: 2.0"L x 0.5"W
- Green LED indicator
- Weight: 0.1 lbs. • One-year warranty

Part No.	Description	1	10
133292	3-element glass laser	$44.95	$39.95

Line Generating Lens

For use w/laser module 133292 (above)



- Adjustable focus range: 50 cm to ∞
- Focal length: 8.0mm
- Back focal length: 1.5mm
- Beam divergence: 2.0mrad
- Lens construction: 3E.3G (glass)
- Screws onto module (P/N 133292 – above) easily
- Weight: 0.01 lbs. • Six-month warranty
- Fan angle: 60° • Length at 1 m distance: 1.70 m

Part No.	Description	1	10	25
134148	60° generating lens	$13.95	$12.49	$10.95

Fiber Optic Designer's Kit

Simplex Kit



This "active link" requires a single +5-volt power supply (recommend part no. 164101, pg. 81) and interfaces with all TTL/CMOS logic. It includes 32' (10m) of 1000µm plastic optical cable; efficient dry, non-polish connectors (4), bulkhead interfaces (2), and splices (2); integrated detector (1) and emitter (1); and top-quality printed wiring boards (2). Full instructions and technical data sheets complete the package. • Weight: 0.5 lbs.

Part No.	Description	1	10
169893	Fiber Optic Kit	$79.95	$71.95

Lab Course and Lab Kit



The Lab Course is a 68-page experiment guide which contains nine fascinating fiber optics experiments. The kit contains all the fiber optic and electronic components required to complete the experiments in the Lab Course manual.

Experiments

- Making a light guide • Fiber optic cable transmission
- Characteristics of connectors and splices
- Index-matching procedures • Fiber optic transmitter
- Speed of opto-electronic devices • Receiver design
- Fiber termination techniques • Weight: 0.7 lbs.

Part No.	Description	1	10
169914	Lab Course and Lab Kit	$49.95	$44.95

9.8' Optical Voice Link Kit



The Optical Voice Link is the ideal introduction for those first learning about the marvels, mysteries and science of light transmission through 9.8' optical fiber.

• 9V battery required • Weight: 0.6 lbs.

Part No.	Description	1	10
169922	9.8' Optical Voice Link Kit	$49.95	$44.95

5 Piece Glass Lens Assortment



An assortment of five high-quality glass lenses designed for optical experiments. Includes at least one each of double-concave, double-convex and concave-convex lens. • Weight: 0.2 lbs.

Part No.	Description	1	10
170026	5 Piece Lens Assortment	$9.95	$7.95

5 Piece Glass Mirror Assortment



Five assorted-size high-quality, multi-purpose first-surface, glass substrate mirrors excellent for many optical experiments. Mirror surfaces are protected with a removable film to prevent scratching during shipping. • No two assortments are identical

• Size: Exceed 4"sq. • Weight: 0.7 lbs.

Part No.	Description	1	10
170000	5 Piece Mirror Assortment	$9.95	$7.95

Fiber Optic Tool Kit



You'll find all the tools you need to work with all plastic optical fibers and termination types. Kit contains fiber optic stripper, 25w hot knife (UL approved), professional fiber cutter, water dispenser, rubber pad, 600 grit and 3µm polishing film, replacement blades, ST (connector type) fiber polishing puck, rugged storage container and instruction booklet.

• Weight: 2.5 lbs.

Part No.	Description	1	10
170034	Fiber Optic Tool Kit	$149.95	$134.95

Educational Communication Kit

3' Optical Fiber Cable



It's a great hands-on educational product as well as an opportunity for the serious investigator/experimenter to explore fiber optic technology. This 3' digital link can also be used to construct high-voltage isolation for telephones, modems and computers.

• Weight: 0.2 lbs.

Part No.	Description	1	10
169906	Ed. Communication Kit	$19.95	$17.95

3 Piece Glass Prism Assortment



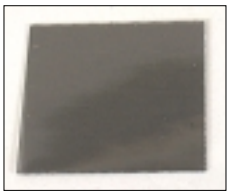
Three assorted-size high quality glass prisms. Excellent for many optical experiments. Includes right-angle, dove, equilateral and pentra prisms. No two assortments are identical.

• Size: Exceed 3/8" per side • Weight: 0.2 lbs.

Part No.	Description	1	10
170018	3 Piece Prism Assortment	$19.95	$17.95

Fiber Optic Polarizing Film

Use with Visible and Near Infrared Light



General-purpose linear polarizing film for use with visible and near-infrared light. Extinction ratio is greater than .01%. Useful for reducing glare, doing optical experimentation, and increasing contrast in sensors. Easily cut, punched or drilled and is resistant to heat, impact and abrasion.

• Size: 2"L x 2"W • Weight: 0.02 lbs.

Part No.	Description	1	10
173067	Polarizing film	$4.95	$3.95

Look for our cleaner more user friendly look

74LS00 Series

Part No.	Product No.	Pins
47001	74LS191	16
47010	74LS192★	16

Limited Quantitites Available

Items marked in blue

New Products Introduced in Our Catalog

Items marked in red

Part Number	Product Number
163635	DC2405F11
174861	DCR2405F12
174879	DCR2405F52

Fiber Optic NPN Phototransistor Detector

Infrared



- Mates with standard 1000µm core jacketed plastic fiber cable
- Internal micro-lens for efficient coupling
- Inexpensive plastic connector housing
- Connector-less fiber termination and connection
- Interference-free transmission from light-tight housing
- No optical design required • Simple PWB mounting
- Rugged screw attachment • Wavelength: 870nm
- V_{CEO}: 30V • I_C: 50mA • 100mW max.
- Excellent linearity • Compatible with LED emitters below

Part No.	Description	Color Dot	1	10
169973	Phototransistor D92	white	$4.95	$4.49

Fiber Optic Photologic Detectors

Infrared



169990 169981

- Mates with standard 1000µm core jacketed plastic fiber cable
- Internal micro-lens for efficient coupling
- Inexpensive plastic connector housing
- Connector-less fiber termination and connection
- Interference-free transmission from light-tight housing
- No optical design required
- Compatible with LED emitters below

169990: • TTL compatible output
• Peak wavelength sensitivity: 800nm

169981: • TTL open-collector output
• Peak wavelength sensitivity: 850nm

Part No.	Description	Color Dot	1	10
169990	Photologic Detector D95T	yellow	$5.95	$4.95
169981	Photologic Detector D96	white	6.95	5.95

Fiber Optic LED Emitters

Infrared and Visible Light



169957

- Mates with standard 1000µm core jacketed plastic fiber cable
- Internal micro-lens for efficient coupling
- Inexpensive plastic connector housing
- Connector-less fiber termination and connection



169965



169949

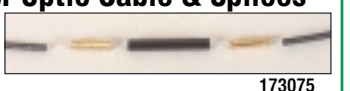
- Interference-free transmission from light-tight housing
- No optical design required • Excellent linearity
- Compatible with above fiber optic photo detectors

169957:
• Peak wavelength: 950nm, V_f=1.7mA max @ 50mA

169949 & 169965:
• Peak wavelength: 660nm, V_f=1.8mA max @ 50mA

Part No.	Description	Color Dot	1	10
169957	Fiber optic LED E91A	blue	$4.95	$4.49
169965	Fiber optic LED E96	pink	5.35	4.95
169949	Fiber optic LED E97	red	6.49	5.95

10' Fiber Optic Cable & Splices



173075

171272:
• 1000µm core jacketed plastic fiber optic cable (10')

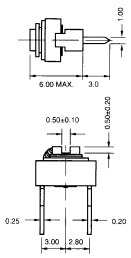
173075: • Enough to make 10 splices on 1000µm fiber optic cable

Part No.	Description	1	10
171272	10' fiber optic cable	$6.95	$6.25
173075	LC splice kit (10)	6.95	6.49

5mm Ceramic Trimmer Capacitor

- Working voltage: 200VDC
- Withstand voltage: 400VDC
- Turning torque: 35~200 g/cm
- Operating temperature range: -30˚C~+85˚C
- Insulation resistance: >10MΩ min. @ 250VDC

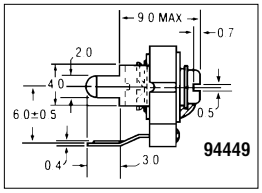




Part Number	Capacitance Range (pf)	Q Factor @ 1MHz	Color Codes	Pricing 1	10	100	1000
136979	9.0-50.0	> 200	Green	$ .49	$ .39	$ .29	$ .19

8mm .315" Ceramic Trimmer Capacitors (250WVDC) Thru Hole

- Working voltage: 250VDC
- Withstand voltage: 550VDC
- Turning torque: 40~200 g/cm
- Operating temperature range: -55˚C~+85˚C
- Insulation resistance: 10MΩ min. @ 250VDC



94449

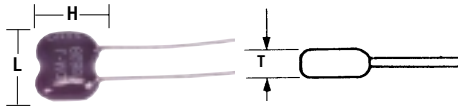


134818

Part Number	Capacitance Range (pf)	Q Factor @ 1MHz	Color Codes	Pricing 1	10	100	1000
134818	3.5–13.0	> 300	Ivory	$ .49	$ .39	$ .29	$ .19
32838★	4.0–34.0	> 300	Yellow	.99	.79	.59	.39
32854★	6.0–70.0	> 200	Nil	.99	.79	.59	.39
94449★	8.5–100	> 200	Purple	.99	.79	.59	.35
94465★	8.5–120	> 200	Nil	.99	.79	.59	.39

Dipped Silver Mica Capacitors (±5%)

Metalized Polyester Film Capacitors



* Capacitor size and lead spacing may vary

Case type	DM15
Lead space (in.)	.23
Tolerance	± 5%
Operating temperature range	-55°C to +125°C
Size (mm) – L x T x H (may vary)*	11 x 4 x 9

Part Number	Product Number	Capacitance	Voltage	Pricing 1	10	100	1000
15991	DM100	10pf	500V	$ .49	$ .39	$ .29	$ .25
16037	DM220	22pf	500V	.45	.35	.25	.19
16070	DM330	33pf	500V	.45	.35	.25	.19
16096	DM470	47pf	500V	.45	.35	.25	.19
16002	DM101	100pf	500V	.45	.35	.25	.19
16088	DM331	330pf	500V	.59	.49	.29	.25
16109	DM471	470pf	500V	.65	.55	.49	.39
16011	DM102	1000pf	100V	.85	.75	.65	.55

Memory Back-Up Capacitors

Features:

- Excellent voltage holding characteristics for low back-up currents
- Small size vs. capacitance
- Capacitance ranges from .047 to 1f • Voltage: 5.5VDC



142922

Applications:

- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)
- Memory back-up of remote controllers

Capacitor dimensions and lead spacing may vary

Part No.	Product No.	Cap. (Farad)	Pricing 1	10	100
142922	MBC.047/5.5	.047	$1.75	$1.49	$1.25
142949	MBC.22/5.5	.22	1.95	1.75	1.25
143010	MBC.47/5.5	.47	2.95	2.75	1.95
142957	MBC1.0/5.5	1.0	3.95	3.49	2.95

Monolithic Ceramic Capacitors (±20%) Ceramic Epoxy Dipped (Z5U Series)

Any Monolithic Ceramic Capacitor may be supplied in ammo style tape by special order – 1000 piece minimum

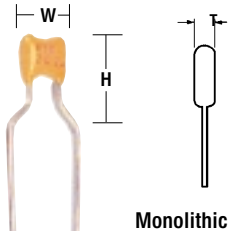
Applications:

• Data processing • Communications engineering

Operating temperature range: -10°C to +85°C

* Capacitor dimensions and lead spacing may vary

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

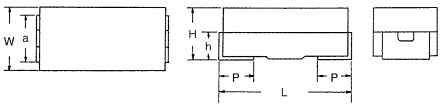


Monolithic

Part Number	Product Number	Capacitance	Voltage	Size (mm)* WxTxH	Pricing 1	10	100	1000	5000
81541	MD10	10pf	50V	3.5 x 2.0 x 3.0	✳	$ .12	$ .09	$ .07	$ .05
81533	MD22	22pf	50V	4.0 x 2.0 x 4.0	✳	.09	.07	.05	.03
81525	MD100	100pf	50V	3.5 x 2.0 x 3.0	✳	.09	.07	.035	.03
81517	MD.001★	.001µf	50V	4.5 x 2.0 x 3.0	✳	.09	.07	.05	.035
138181	MD.0022	.0022µf	50V	4.0 x 2.0 x 5.5	✳	.09	.07	.05	.035
138202	MD.0047	.0047µf	50V	5.0 x 2.0 x 5.5	✳	.09	.07	.05	.035
25507	MD.01★	.01µf	50V	3.5 x 2.0 x 3.0	✳	.09	.07	.05	.035
57621	MD.047★	.047µf	50V	2.5 x 2.5 x 3.0	✳	.12	.09	.05	.04
25523	MD.1★	.1µf	50V	6.0 x 2.0 x 4.0	✳	.12	.07	.05	.04
25540	MD.22★	.22µf	50V	6.0 x 2.0 x 4.5	✳	.15	.12	.07	.05
138237	MD.33	.33µf	50V	6.0 x 2.0 x 8.0	✳	.19	.15	.10	.06
25558	MD.47★	.47µf	50V	4.5 x 2.5 x 4.5	✳	.19	.15	.10	.06
81509	MD1★	1µf	50V	6.0 x 3.0 x 7.0	.45	.35	.29	.25	.19

Resin Molded Chip Tantalum Electrolytic Capacitors (±20%)

Any surface mount Tantalum Chip Capacitor may be special ordered – 2000 piece minimum.



Case Size (Dimensions in mm)

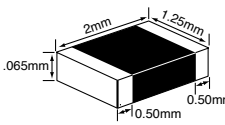
EIA CASE CODE	L ±0.2	W ±0.2	H ±0.2	P ±0.3	a ±0.2	h(min)
A (3216)	3.2	1.6	1.7	0.8	1.2	0.7
B (3528)	3.5	2.8	1.9	0.8	2.0	0.7
C (6032)	6.0	3.2	2.5	1.3	2.0	1.0
D (7343)	7.3	4.3	2.9	1.3	2.4	1.0

10V SMT Tantalum			Pricing per each				
Part Number	Capacitance	Case Size	10 pc. increments	100	500	OEM reels 500	2000
87020	10µf	B	$1.09	$.99	$.89	—	$.79
87118	100µf	D	1.19	1.09	—	.99	—

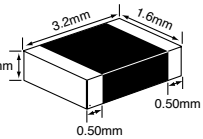
16V SMT Tantalum			Pricing per each				
Part Number	Capacitance	Case Size	10 pc. increments	100	500	OEM reels 500	2000
86932	1µf	A	$.99	$.89	$.79	—	$.69
87038	10µf	C	.89	.79	—	.69	—
87100	47µf	D	2.19	1.95	—	1.75	—

Multilayer Ceramic Chip Capacitors (Surface Mount)

Any surface mount Ceramic Chip Capacitor may be special ordered – 3000 piece minimum.



0805 SMT CASE



1206 SMT CASE

X7R SERIES (±10%)

0805 SMT Case			Pricing per each				
Part Number	Capacitance	Voltage	100 pc. increments	500	1000	OEM reels 3000	5000
87311	.01µf	50	$.19	$.15	$.11	—	$.07
87370	.1µf	25	.19	.15	.11	.07	—

1206 SMT Case			Pricing per each				
Part Number	Capacitance	Voltage	100 pc. Increments	500	1000	OEM reels 3000	5000
87329	.01µf	50	$.15	$.13	$.11	—	$.09
87388	.1µf	50	.19	.17	.15	.11	—
87396	.22µf	25	.25	.22	.19	.15	—

Z5U SERIES (±20%)

0805 SMT Case			Pricing per each			
Part Number	Capacitance	Voltage	100 pc. increments	500	1000	OEM reels 5000
87177	.1µf	50	$.12	$.07	$.05	$.03

1206 SMT Case			Pricing per each			
Part Number	Capacitance	Voltage	100 pc. increments	500	1000	OEM reels 5000
87185	.1µf	50	$.15	$.13	$.11	$.09
87206	.22µf	50	.10	.09	.07	.05
87222	.47µf	50	.25	.22	.19	.15

Miniature Aluminum Radial Electrolytic Capacitors

General purpose low volt. 85°C (A); HT Type 105˚C (B) ±20%



Operating temperature range		-40°C to +85°C (A); -40˚C to +105˚C (B)
Leakage Current (20°C)	After 1 min.	0.03CV or 4μA, whichever is greater
	After 2 min.	0.01CV or 3μA, whichever is greater

RADIAL CAPACITOR CROSS REFERENCES

Elna: RC2/RE2; **IC:** RAR/RSS; **Marcon:** SEM/SSM; **Nichicon:** LB/VX/USA/SR/SA; **Rubycon:** MS7/TWSS; **Sprague:** 501D/513D; **UCC:** SME/SRE/SRA/SRG; **Panasonic:** KA/KS/SU

* Capacitor dimensions and lead spacing may vary

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Op. Temp	Value (μf)	Voltage	Size (mm)* DxH		Pricing 1	10	100	1000
158481	R0.47B100	B	0.47	100V	5x11.5	✳	$.07	$.05	$.035	
94160	5R1/50	A	1	50V	4x5	✳	.12	.09	.07	
29831	R1/50★	A	1	50V	5x11	✳	.04	.03	.025	
158490	R1B100	B	1	100V	5x11.5	✳	.09	.06	.04	
93729	R2.2/50	A	2.2	50V	5x11	✳	.04	.03	.025	
135183	R3.3/50	A	3.3	50V	5x11	✳	.055	.045	.035	
31000	R4.7/50	A	4.7	50V	5x11	✳	.04	.03	.025	
158511	R4.7B100	B	4.7	100V	5x11.5	✳	.065	.045	.03	
94211	5R10/25	A	10	25V	4x5	✳	.12	.09	.07	
94220	5R10/35	A	10	35V	5x5	✳	.15	.12	.09	
94369	7R10/35	A	10	35V	5x7	✳	.10	.06	.04	
29891	R10/50★	A	10	50V	5x10	✳	.04	.03	.025	
158529	R10B100	B	10	100V	6x11.5	✳	.09	.06	.045	
158326	R22B35	B	22	35V	5x11.5	✳	.07	.05	.035	
93737	R22/50	A	22	50V	6x11	✳	.06	.05	.035	
93745	R33/50	A	33	50V	6x11	✳	.07	.06	.04	
135301	R47/10	A	47	10V	5x12	✳	.03	.015	.01	
93753	R47/25	A	47	25V	6x7	✳	.04	.03	.025	
158246	R47B25	B	47	25V	5x11.5	✳	.07	.05	.035	
31114	R47/50★	A	47	50V	6x11	✳	.06	.05	.045	
94289	5R100/16	A	100	16V	6x5	✳	.15	.12	.09	
94431	7R100/16	A	100	16V	6x7	✳	.12	.09	.07	
93761	R100/25	A	100	25V	6x11	✳	.07	.06	.04	
29962	R100/50★	A	100	50V	8x11	✳	.07	.06	.05	
158393	R100B50	B	100	50V	8x12	✳	.12	.09	.07	
135124	7R220/10	A	220	10V	8x11	✳	.15	.07	.05	
30496	R220/25★	A	220	25V	8x11	✳	.09	.07	.05	
158262	R220B25	B	220	25V	8x12	✳	.12	.09	.07	
93770	R220/35	A	220	35V	10x16	✳	.12	.09	.08	
93778	R220/50	A	220	50V	10x20	✳	.15	.12	.09	
158406	R220B50	B	220	50V	10x17	✳	.19	.15	.12	
93796	R330/25	A	330	25V	10x19	✳	.15	.12	.08	
93809	R470/16	A	470	16V	10x20	✳	.12	.09	.08	
158203	R470B16	B	470	16V	8x12	✳	.13	.10	.09	
31181	R470/25★	A	470	25V	10x16	✳	.13	.10	.09	
158289	R470B25	B	470	25V	8x14	✳	.15	.12	.10	
93817	R470/35	A	470	35V	12x24	✳	.17	.15	.13	
93825	R470/50	A	470	50V	18x15	.29	.25	.19	.12	
158465	R470B63	B	470	63V	13x21	.37	.34	.25	.15	
30015	R1000/16★	A	1000	16V	13x21	✳	.15	.12	.09	
93833	R1000/25	A	1000	25V	12x20	✳	.23	.19	.15	
158297	R1000B25	B	1000	25V	10x17	.35	.29	.25	.19	
158377	R1000B35	B	1000	35V	13x21	.39	.35	.29	.25	
93841	R1000/50	A	1000	50V	16x26	.49	.39	.35	.29	

Capacitors continued on top right column

Miniature Aluminum Radial Electrolytic Caps (Continued)

General purpose low volt. 85°C (A) standard size; HT Type 105˚C (B) ±20%

Part Number	Product Number	Op. Temp	Value (μf)	Voltage	Size (mm)* DxH	Pricing 1	10	100	1000
133145	R2200/16	A	2200	16V	16x26	$.39	$.29	$.25	$.19
30533	R2200/25★	A	2200	25V	16x36	.45	.39	.35	.25
158431	R2200B50	B	2200	50V	16x31	.89	.75	.59	.49
30891	R3300/25	A	3300	25V	16x31	.69	.59	.49	.39
93850	R4700/25	A	4700	25V	18x35	.79	.69	.59	.49
163301	R4700/50	A	4700	50V	22x42	1.75	1.49	1.25	1.09
31510	R6800/16	A	6800	16V	18x36	1.09	.99	.79	.69

Miniature Aluminum Axial Electrolytic Capacitors

General purpose low voltage 85°C (A) standard size (±20%)



Operating temperature range	-40°C to +85°C (A)
Leakage Current (After 2 minutes 20°C)	0.02CV or 2μA, whichever is greater

AXIAL CAPACITOR CROSS REFERENCES

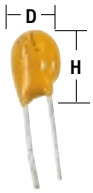
Elna: RE2; **IC:** RAR; **Marcon:** SEM; **Nichicon:** LB/VX; **Rubycon:** TWSS; **Sprague:** 501D/513D; **UCC:** SME; **Panasonic:** SU

* Capacitor dimensions and lead spacing may vary

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Op. Temp	Value (μf)	Voltage	Size (mm)* DxH		Pricing 1	10	100	1000
10866	A1/50★	A	1	50V	5x13	✳	$.15	$.12	$.09	
93569	A2.2/50	A	2.2	50V	6x13	✳	.15	.10	.075	
11076	A4.7/50★	A	4.7	50V	6x13	✳	.15	.12	.09	
93577	A10/35	A	10	35V	6x13	✳	.15	.12	.09	
10882	A10/50★	A	10	50V	6x12	✳	.15	.12	.09	
158836	A10A63	A	10	63V	6x13	✳	.15	.12	.075	
10997	A22/50★	A	22	50V	6x12	✳	.15	.12	.09	
147230	A33/35	A	33	35V	8x16	✳	.12	.09	.07	
135319	A47/25	A	47	25V	8x16	✳	.12	.08	.05	
11105	A47/50★	A	47	50V	8x16	✳	.15	.12	.09	
147221	A68/25	A	68	25V	8x17	✳	.15	.12	.09	
93551	A100/35	A	100	35V	8x16	✳	.19	.15	.10	
10911	A100/50★	A	100	50V	8x20	✳	.25	.19	.15	
11017	A220/50★	A	220	50V	10x20	.29	.25	.19	.15	
54287	A470/16	A	470	16V	10x26	✳	.12	.08	.065	
11121	A470/50★	A	470	50V	13x31	.45	.39	.32	.25	
93631	A1000/16	A	1000	16V	13x27	.45	.39	.32	.25	
10954	A1000/25★	A	1000	25V	13x31	.59	.49	.39	.29	
93649	A1000/35	A	1000	35V	13x26	.69	.59	.45	.35	
147256	A1000/50	A	1000	50V	16x31	.79	.69	.59	.49	
147862	A1800/16	A	1800	16V	13x40	✳	.15	.09	.065	
11033	A2200/16	A	2200	16V	16x40	.49	.39	.35	.25	
93657	A2200/35	A	2200	35V	16x30	1.09	.99	.89	.75	
93665	A3300/25	A	3300	25V	16x32	.89	.79	.69	.59	
93673	A4700/25	A	4700	25V	22x39	1.49	1.25	.99	.75	
158810	A4700A50	A	4700	50V	25x43	2.49	2.25	1.95	1.75	
93681	A10000/16	A	10000	16V	22x51	1.95	1.75	1.49	1.25	

Dipped Tantalum Capacitors (±10%)



Resin Dipped Solid Tantalum Capacitors

- Flame retardant coating • Exceptional temperature stability
- Low leakage current impedance • Moisture-resistant
- Designed for entertainment and commercial equipment
- **Capacitor dimensions and lead spacing may vary**

Operating temp. range	-55°C to +85°C (+125°C with derating)
Rated voltage DC	≤ + 85°C

DIPPED TANTALUM CAPACITOR CROSS REFERENCES

Panasonic: EF Series; **AVX:** Tap Series; **Sprague:** 196D and 199D; **Kemet:** T350/ T360; **Mepco:** 49GS; **NEC:** DN; **Nichicon:** 599; **NIC:** NDTM; **Hitachi:** TSD-3; **Matsuo:** 202

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Capacitance	Voltage	Size (mm) DxH	Pricing 1	10	100	1000
33486	TM.1★	.1µf	35V	4.5x7	✳	$.19	$.15	$.13
33507	TM.22	.22µf	35V	4.5x7	✳	.19	.15	.13
33523	TM.33	.33µf	35V	4.5x7	✳	.19	.15	.13
33531	TM.47★	.47µf	35V	4.5x7	✳	.19	.15	.13
154860	TM1/25	1µf	25V	3x6	✳	.23	.21	.18
33662	TM1★	1µf	35V	4.5x7	✳	.25	.22	.19
94001	TM2.2/16	2.2µf	16V	4.5x7	✳	.19	.15	.13
94019	TM2.2/25	2.2µf	25V	4.5x7	✳	.25	.22	.189
33734	TM2.2★	2.2µf	35V	4.5x7.5	.33	.29	.25	.22
33769	TM3.3	3.3µf	35V	4.5x7.5	.45	.35	.29	.25
94035	TM4.7/16	4.7µf	16V	4.5x7.5	.33	.29	.25	.22
94043	TM4.7/25	4.7µf	25V	5x8.5	.39	.35	.29	.25
33806	TM4.7★	4.7µf	35V	5.5x9	.42	.38	.31	.27
33873	TM6.8	6.8µf	35V	6x10	.45	.39	.29	.25
94060	TM10/16★	10µf	16V	5x9	.29	.25	.22	.19
94078	TM10/25	10µf	25V	5.5x9	.49	.39	.35	.31
33689	TM10★	10µf	35V	6x10	.69	.59	.49	.45
33718	TM15	15µf	25V	6x10	.59	.49	.45	.39
33751	TM22	22µf	6.3V	5x9	.45	.35	.31	.27
94094	TM22/16★	22µf	16V	6x10	.49	.39	.35	.31
94107	TM22/25	22µf	25V	7x10.5	1.19	1.09	.99	.89
33785	TM33★	33µf	25V	8x13	1.19	1.09	.99	.89
94123	TM47/16	47µf	16V	8x13	1.19	1.09	.99	.89
33822	TM47★	47µf	25V	9x14.5	1.75	1.55	1.45	1.35
33700	TM100	100µf	6.3V	7x10.5	1.19	1.09	.99	.89

Ceramic Disc Capacitors (±20%)



25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient

Any Ceramic Disc Capacitors may be supplied in ammo-style tape by special order – 1000 piece minimum

- **Capacitor dimensions and lead spacing may vary**

Operating temperature range	+10°C to +85°C
Cap. change over temp. range	+22% to -56%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.

Low Voltage 50VDC Ceramic

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Capacitance	Voltage	Dia. (mm)	Pricing 1	10	100	1000	5000
135141	DC2.2	2.2pf	50V	5	✳	$.09	$.07	$.03	$.02
15333	DC10	10pf	50V	5	✳	.05	.035	.02	.015
15405	DC22	22pf	50V	6	✳	.05	.035	.02	.015
15510	DC47	47pf	50V	5	✳	.05	.035	.03	.02
15341	DC100★	100pf	50V	5	✳	.05	.035	.02	.015
15413	DC220	220pf	50V	5	✳	.05	.035	.03	.015
15528	DC470	470pf	50V	5	✳	.05	.035	.03	.015
15190	DC.001★	.001µf	50V	6	✳	.05	.035	.02	.015
97341	DC.0022/1K20	.0022µf	1000V	11	✳	.15	.10	.06	.04
135167	DC.0027	.0027µf	500V	7	✳	.09	.07	.03	.02
15211	DC.0047	.0047µf	50V	6	✳	.05	.035	.03	.02
15229	DC.01★	.01µf	50V	6	✳	.05	.035	.02	.015
97375	DC.01/1K20	.01µf	1000V	12	✳	.15	.10	.06	.04
15245	DC.022	.022µf	50V	8	✳	.07	.05	.04	.03
15253	DC.047	.047µf	50V	8	✳	.07	.05	.04	.03
151116	DC.1/25	.1µf	25V	6	✳	.10	.06	.04	.03
15270	DC.1★	.1µf	50V	8	✳	.12	.07	.05	.04

Ceramic Disc Capacitors (±5%)



50 Volt and 1000 Volt, NPO Temperature Stable

Operating temperature range	-30°C to +85°C (+125°C w/ derating)
Cap. change over temp. range	-6% to +9%
Dielectric withstanding voltage	2.5 times rated volt. for not < 1 sec.

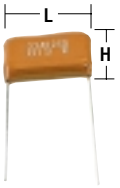
- **Capacitor dimensions and lead spacing may vary**

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

High Voltage 1000VDC Ceramic

Part Number	Product Number	Capacitance	Voltage	Dia. (mm)	Pricing 1	10	100	1000
97261	DC100/1K5	100pf	50V	7	✳	$.15	$.12	$.09

Mylar Capacitors (±10%)

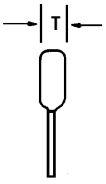


Metallized Polyester Film Capacitors

Any Mylar Capacitors may be supplied in ammo-style tape by special order – 1000 piece minimum

- High performance at low cost • Non-inductive construction
- High stability with frequency over an extended operating life
- **Capacitor dimensions and lead spacing may vary**

Operating temperature range	-40°C to +85°C
Dissipation factor	≤.01 (at 1kHz)
Dielectric strength	150% of rated voltage for 5 sec.



MYLAR CAPACITOR CROSS REFERENCES:

Panasonic: ECQ-E Series; **Sprague:** DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Rubycon:** MC/MN; **Mepco:** 713A1/719A1/C280; **TRW:** X601PE/X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/PHE354; **Roederstein:** MKT 1818/MKT 1822; **WIMA:** MKS; **CSF Thompson:** MD/MC; **Siemens:** B325X-XX; **NIC:** NEM/NRM; **Nichicon:** DDXM; **Phillips:** 712 A1 series

† **Denotes 20% tolerance** ✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part Number	Product Number	Capacitance	Voltage	CaseSize LxTxH (mm)	Pricing 1	10	100	1000
26833	MY.001★	.001µf	100V	7x3x7	✳	$.10	$.06	$.04
26868	MY.0022	.0022µf	100V	6x3x10	✳	.10	.06	.04
26876	MY.0047	.0047µf	100V	6x3x9	✳	.10	.06	.04
26884	MY.01★	.01µf	100V	6x3x7	✳	.10	.06	.04
26905	MY.022★	.022µf	100V	6x3x10	✳	.15	.10	.06
26921	MY.033	.033µf	100V	8x4x11	✳	.15	.10	.06
166916	MY.039/400	.039µf	400V	11x5x8	✳	.15	.10	.05
26930	MY.047★	.047µf	100V	8x4x12	✳	.15	.10	.06
93905	MY.047/400	.047µf	400V	12x5x9	✳	.17	.12	.05
135562	MY.1/50	.1µf†	50V	14x6x12	✳	.12	.07	.03
26956	MY.1★	.1µf	100V	12.5x5x9.5	✳	.17	.12	.07
93921	MY.1/250★	.1µf	250V	12.5x5.5x10	✳	.19	.12	.07
135546	MY.22/50	.22µf	50V	17x9x16	✳	.17	.12	.07
26972	MY.22★	.22µf	100V	12.5x5.5x10	✳	.19	.12	.07
93964	MY.33/250	.33µf	250V	18x7x12.5	.32	.25	.19	.15
26999	MY.47★	.47µf	100V	18x6x11.5	.32	.25	.19	.15
27001	MY1★	1µf	100V	18x7.5x14	.59	.49	.39	.25
93999	MY2.2/250★	2.2µf	250V	26x9x16	.75	.65	.55	.45

Large Can Aluminum Electrolytic Snap Capacitors (±20%)

Snap-Ins!

NRLM Series

- Designed as input filter for switched mode power supply standard 10mm (.400") snap-in spacing
- Operating temperature range: -40°C to +85°C max. leakage current: 0.02CV (uA) or 3mA whichever is smaller • Can-Top safety vent
- **Capacitor dimensions and lead spacing may vary**



115422

CROSS REFERENCES: Aero M: LP/LPR; **Elna**:LP3/LP4; **Illinois Capacitor**:LBA/LPR; **Mallory**:LDX; **Marcon**:CEAWF; **Nichicon**:LLK/LLQ; **Panasonic**:TS-UP/TS-U; **Phillips** (MEPCO):3487/3489; **Rubycon**:RSP; **Sprague**:80D/82D; **United Chemicon**:SMG(VN)/SMH(VN)

Part Number	Product Number	Capacitance	Voltage	Size (mm) DxL	Pricing 1	10	100
115351	SN220/200	220µf	200V	30 x 31	$1.75	$1.49	$1.25
115377	SN470/200	470µf	200V	25 x 51	1.95	1.75	1.25
155889	SN560/200	560µf	200V	23 x 41	1.95	1.75	1.25
115422	SN4700/50	4,700µf	50V	30 x 51	1.95	1.75	1.25
115431	SN6800/50	6,800µf	50V	30 x 51	2.75	2.49	1.95
157737	SN10000/50	10,000µf	50V	35 x 40	3.95	3.49	2.95

1/4 Watt Carbon Film Resistors (±5%)

160 Standard Resistor Values Chart

Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms	Part No.	Ohms
†	2.2	29882	10 ▲●	31106	47 ▲●	30470	220 ▲✖	29663	1.0K ▲✖	31026	4.7K ▲✖	30453	22K ▲●	29997	100K ▲✖	31202	470K ▲●	†	2.2M
†	2.4	†	11	†	51	†	240	†	1.1K	31237	5.1K ▲●	†	24K	†	110K	†	510K	†	2.4M
†	2.7	†	12	†	56	30605	270 ▲●	29735	1.2K ●	31270	5.6K ▲●	†	27K	†	120K	†	560K	†	2.7M
†	3.0	†	13	†	62	†	300	†	1.3K	†	6.2K	†	30K	†	130K	†	620K	†	3.0M
†	3.3	†	15	†	68	30867	330 ▲●	29760	1.5K ▲●	†	6.8K	30841	33K ▲●	†	150K	†	680K	†	3.3M
†	3.6	†	16	†	75	†	360	†	1.6K	†	7.5K	†	36K	†	160K	†	750K	†	3.6M
†	3.9	30234	18	†	82	30963	390 ●	29807	1.8K	†	8.2K	†	39K	†	180K	†	820K	†	3.9M
†	4.3	†	20	†	91	†	430	30277	2.0K ▲●	†	9.1K	†	43K	†	200K	†	910K	†	4.7M
†	4.7	†	22	29946	100 ▲✖	31165	470 ▲●	30314	2.2K ▲●	29911	10K ▲✖	31149	47K ▲●	30525	220K	29698	1.0M ▲●	†	5.1M
†	5.1	†	24	†	110	†	510	†	2.4K	†	11K	†	51K	†	240K	†	1.1M	†	5.6M
†	5.6	†	27	30082	120	31376	560	30390	2.7K ▲●	†	12K	†	56K	†	270K	†	1.2M	†	6.2M
†	6.2	†	30	†	130	†	620	†	3.0K	†	13K	†	62K	†	300K	†	1.3M	†	6.8M
†	6.8	†	33	30162	150 ▲●	31499	680 ▲●	30672	3.3K ▲●	30146	15K ▲●	†	68K	†	330K	†	1.5M	†	7.5M
†	7.5	†	36	†	160	†	750	†	3.6K	†	16K	†	75K	†	360K	†	1.6M	†	8.2M
†	8.2	†	39	†	180	†	820	†	3.9K	†	18K	†	82K	†	390K	†	1.8M	†	9.1M
†	9.1	†	43	†	200	†	910	†	4.3K	†	20K ●	†	91K	†	430K	†	2.0M	29938	10M ▲●

K=1000 ohms M=1,000,000 ohms – For (▲), (●), (✖) information, see symbol column in 1/4 watt Resistor Assortments below.

Any value with part number is a stock item. † Any standard resistor value above (without part number) may be special ordered – 1,000 pc. minimum – $10.95/K (bulk)



1/4 Watt Carbon Film Resistors (±5%) Bulk

To order: Just use 5-digit part number adjacent to ohms in above chart

$.99/bag 100 piece bags

Part No./Ohms	Pricing (sold in 100-piece bags)			
	1	10	50	100
(see chart above)	$.99/bag	$.79/bag	$.69/bag	$.59/bag

Resistor Color Code



- All values shown in ohms (Ω)
- Values may not be combined for quantity price breaks
- Sold in minimum increments of 100 each

1st & 2nd Band	3rd Band		4th Band
0 - Black	Black	1	Gold - ±5%
1 - Brown	Brown	10	
2 - Red	Red	100	
3 - Orange	Orange	1,000	
4 - Yellow	Yellow	10,000	Silver - ±10%
5 - Green	Green	100,000	
6 - Blue	Blue	1,000,000	
7 - Violet	Silver	0.01	
8 - Gray	Gold	0.1	No Band - ±20%
9 - White			

1/4 Watt Carbon Film Resistor (±5%) Assortments

Part No.	Product No.	Symbol	Description	1	10	25
10719	ASST8★	N/A	5 each 70 values (every other value from R10 ohm-R5.6 Meg) 1/4 watt carbon film (350 pcs.)	$8.95	$7.95	$6.49
103165	ASST30★	● / ✖	10 each (24 (●) values) 50 each (6 (✖) values) 1/4 watt carbon film resistors (540 pcs.)	12.95	11.49	9.95
10663	ASST27	▲	100 each (27 (▲) values) 1/4 watt carbon film resistors (2,700 pcs.)	19.95	17.95	15.95
10655	ASST161	N/A	100 each 161 values (resistor values chart above) 1/4 watt carbon film resistors (16,100 pcs.)	109.95	99.95	89.95
81832	CAB14R	N/A	1/4 watt resistor component cabinet kit – 30 values (540 pcs.) see page 22	27.95	24.95	22.49

1/8 & 1/2 Watt Carbon Film Resistors (±5%)

1/8 & 1/2 Watt Resistor Assortments Value Chart (Ohms)

10 ✓✗	150 ✓✗	330 ✓✗	680 ✓✗	2.0K ✓✗	3.3K ✓✗	5.6K ✓✗	15K ✓✗	33K ✓✗	470K ✓✗
47 ✓✗	220 ✓#	390 ✗	1.0K ✓#	2.2K ✓✗	4.7K ✓#	6.8K ✗	22K ✓✗	47K ✓✗	1.0M ✓✗
100 ✓#	270 ✓✗	470 ✓✗	1.5K ✓✗	2.7K ✓✗	5.1K ✓✗	10K ✓#	27K ✗	100K ✓#	10M ✓✗

(✓), (✗), (#) symbols indicate Resistor values included in Assortments below.

1/8 Watt Carbon Film Resistor (±5%) Assortments

Any standard resistor value (above) may be special ordered – 1,000 pc. minimum – $12.95/K (bulk) – call for larger quantity pricing.

Part No.	Product No.	Description	1	10
108302	ASST1830	10 each (24 (✗) values) 50 each (6 (#) values) 1/8 watt carbon film resistors (540 pcs.) (see chart above)	$12.95	$11.49
108290	ASST1827	100 each (27 (✓) values – see chart above) 1/8 watt carbon film resistors (2,700 pcs.)	27.95	24.95
108329	CAB182R	1/8 watt resistor component cabinet kit – 30 values (540 pcs.) see page 22	27.95	24.95

1/2 Watt Carbon Film Resistor (±5%) Assortments

Any standard resistor value (above) may be special ordered – 1,000 pc. minimum – $15.95/K (bulk) – call for larger quantity pricing.

Part No.	Product No.	Description	1	10
107836	ASST1270★	5 each 70 values (every other value from R10 ohm-R5.6M) (see chart – top of page) 1/2 watt carbon film (350 pcs.)	$10.95	$9.95
107852	ASST1230★	10 each (24 (✗) values) 50 each (6 (#) values) 1/2 watt carbon film resistors (540 pcs.) (see chart above)	14.95	13.49
107844	ASST1227	100 each (27 (✓) values – see chart above) 1/2 watt carbon film resistors (2,700 pcs.)	29.95	26.95
107861	ASST12161	100 each 161 values (resistor values chart – top of page) 1/2 watt carbon film resistors (16,100 pcs.)	149.95	134.95
107879	CAB12R	1/2 watt resistor component cabinet kit – 30 values (540 pcs.) see page 22	29.95	26.95

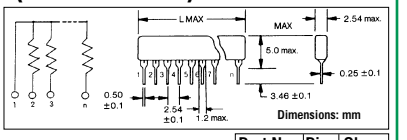
Resistor Networks (±2%)

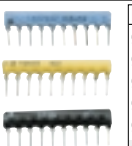
Single-In-Line "SIP" Resistor Networks

8, 10-Pin Bussed (25mW/Resistor) ±2%

Features (8BRN/10BRN):

- Rated power per resistor at 70°C: 125mW/ resistor — Bussed/Common Circuit
- Operating temp. range: -55°C to +125°C
- Resistance temperature coefficient: 200 ppm/°C
- Max. working voltage: 100V or rated power x resistance, whichever is smaller
- Insulation resistance: 10,000MΩ min. at 100V
- Solderability: per MIL-R-83401
- 8-pin package (7 resistors) = **8BRN**
  10-pin package (9 resistors) = **10BRN**
- Low profile 5mm (.200" body height)
- Low profile is compatible w/ DIPs
- Cermet thick film construction
- ✳ **10 piece minimum**





Pricing			
10	100	1000	
✳	$.19	$.15	$.12

Part No.	Pins	Ohms
97826	8	10K
97851	10	330
97869	10	470
97877	10	1.0K
97893	10	2.2K
24660	10	4.7K
24643	10	10K
98087	10	47K
98095	10	100K

SIP and DIP Resistor Network Cross Reference Chart

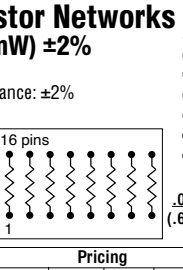
Jameco	CTS	A – B	Bourns	Dale	Beckman	Sprague	MEPCO
8BRN...	770-81-R...	708A...	4608X-101...	CSC08A01...	L08-1-R...	356CF... X2PD	9S08... GL002
10BRN...	770-101-R...	710A...	4610X-101...	CSC10A01...	L10-1-R...	256CX ... X2PD	9S10... GL002
16IRN...	761-3-R...	316B...	4116R-001...	MDP16-03...	898-3-R...	916C... X5SR	D16H... 12-J

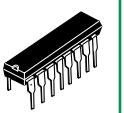
Dual-In-Line "DIP" Resistor Networks

16-Pin Isolated (140mW) ±2%

Features (16IRN):

- Maximum operating voltage: 100V • Tolerance: ±2%
- Temperature coefficient: ±100ppm/°C
- Operating temperature: -55°C to +125°C
- Insulation resistance: 10,000MΩ min.
- Lead solderability / Solvent resistance: meets requirements of MIL-R-83401
- Power rating at 70°C: 2.25 watts
- Compatible with automatic insertion equipment
- Copper leads for excellent heat dissipation





Pricing			
1	10	100	1000
$.59	$.49	$.39	$.29

Part No.	Ohms
164005	33
108556	100
108564	220
108572	330
108581	470
108599	1.0K
108610	4.7K
108628	10K
108644	100K

SMD Resistor Assortment (±5%)

144 Values (50 pcs. each) 7,200 Pieces



- Surface mount 0805 resistors, 144 values ranging from 1.2Ω to 10MΩ (50 pieces of each value)
- Size: (0805) 2.0mmL x 1.25mmW
- Thickness: 0.5mm
- Tolerance: 5%
- Max. overload voltage: 200V
- Operating temperature: -50˚C to 120˚C
- Includes case with labels
- Case (two cases) size: 10.5"L x 6.7"W x 1.7"Thick
- Weight: 1.9 lbs

Resistance Value Chart:

1.2	33	430	4.3K	51K	620K
1.6	39	470	4.7K	56K	750K
2.2	43	510	5.6K	62K	820K
2.4	47	560	6.2K	68K	910K
2.7	51	620	6.8K	75K	1.0M
3.0	56	680	7.5K	82K	1.6M
3.3	62	750	8.2K	91K	1.8M
4.3	68	820	9.1K	100K	2.0M
4.7	75	910	10K	110K	2.2M
5.1	85	1.0K	11K	120K	2.4M
5.6	91	1.1K	12K	150K	2.7M
6.2	110	1.2K	13K	160K	3.0M
6.8	120	1.3K	15K	180K	3.3M
7.5	130	1.5K	16K	200K	3.6M
8.2	150	1.6K	18K	220K	3.9M
9.1	160	1.8K	20K	240K	4.3M
10	180	2.0K	22K	270K	4.7M
16	200	2.2K	24K	300K	5.1M
18	220	2.4K	27K	360K	5.6M
20	240	2.7K	30K	390K	6.8M
22	270	3.0K	33K	430K	7.5M
24	300	3.3K	36K	470K	8.2M
27	360	3.6K	39K	510K	9.1M
30	390	3.9K	43K	560K	10M

Part No.	Product No.	1	10	25
172806	16-500	$69.95	$62.95	$56.95

SMD Resistor Assortment (±1%)

56 Values (200 pcs. each) 11,200 pieces
1206 Chip Resistors



Packaged in strips of 200 pieces each

Surface mount 1206 resistors, 56 values ranging from 10Ω to 1MΩ – see chart (below).

- Thick film 1206 size chip
- Tolerance: 1%
- Max. working voltage: 200V
- Max. overload voltage: 400V
- Power @ 70˚C: 1/8W
- Operating temp.: -55˚C to +125˚C
- Resistor dimensions (mm): 3.10±0.10 (L) x 1.55±0.10 (W) x 0.55±0.10–0.05 (H) top terminator: 0.45±0.20 (W) bottom terminator: 0.35±0.15 (W)
- Temp. coefficient: ±100 ppm/˚C • Weight: 0.3 lbs.
- 4 digit indication: 1st 3 significant, 4th multiplier

Value Chart (Ohms)

10	100	1K	10K	100K
12.1	121	1.21K	12.1K	121K
15	150	1.5K	15K	150K
20	200	2K	20K	200K
24.3	243	2.43K	24.3K	243K
30.1	301	3.01K	30.1K	301K
39.2	392	3.92K	39.2K	392K
49.9	499	4.99K	49.9K	499K
61.9	619	6.19K	61.9K	619K
75	750	7.5K	75K	750K
90.9	909	9.09K	90.9K	909K

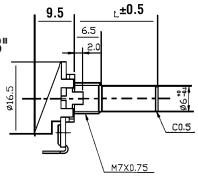
Part No.	Product No.	1	10
156881	SMR1206SB	$99.95	$89.95

JAMECO 0.2 Watt Linear Taper Potentiometer (±20%)

With 10 Detents



- Number of detents: 10
- Shaft diameter: 0.235"
- Shaft length: 0.605"
- Insulation resistance: 100MΩ @ 500VDC
- Thread size: M7 x .75mm
- Mounting hole: 0.026"
- Solder eyelet diameter: 0.123"
- Max. panel thickness: 0.15"
- Max. operating voltage: 150VAC
- Rotational life: 15,000 cycles
- Includes mounting hardware



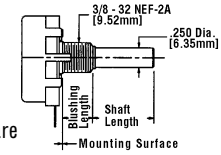
Part No.	Product No.	Ohms	1	10	100	500
163563	PMD401	10K	$.99	$.85	$.69	$.59

CLAROSTAT 2 Watt 53C3 Series (±10%)

- 2 watts @ 70°C ambient
- Conductive plastic element
- Military No.: RV4N-AYSD
- Taper: linear
- Non-commercial
- Tolerance: ±10%
- Temperature range: -55°C to +120°C
- Shaft diameter: 0.25"
- Shaft length: 0.875" (7/8")
- Slotted shaft end
- Mounting hole: 0.375"
- Max. panel thickness: 0.25"
- Solder eyelet dia.: 0.0625"
- Bushing length: 0.35"
- Non-rotational key
- Includes mounting hardware
- Weight: .08 lbs.
- See knobs – page 46



95417

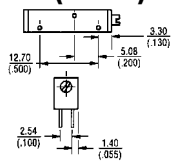


Part No.	Product No.	Ohms	1	10	50	100
183610	53C3-500	500	$6.95	$5.95	$4.95	$4.49
13936	CMU1021★	1K	6.95	5.95	4.95	4.49
13995	CMU5021★	5K	6.95	5.95	4.95	4.49
13952	CMU1031★	10K	6.95	5.95	4.95	4.49
54869	CMU2531	25K	6.95	5.95	4.95	4.49
95417	CMU5031	50K	6.95	5.95	4.95	4.49
13979	CMU1041★	100K	6.95	5.95	4.95	4.49
95425	CMU1052	1M	6.95	5.95	4.95	4.49

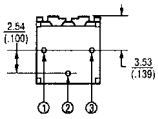
BOURNS 1/2 Watt Trimming Potentiometers (±10%)

1/4" Square Cermet

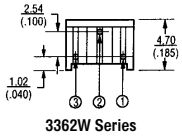
- Resistance tolerance: ±10%
- Absolute min. resistance: 1% or 2Ω max.
- Contact resistance variation: 1% or 1Ω max.
- Insulation resistance: 500VDC; 1,000MΩ min.
- Rotational life: 200 cycles
- Terminals: solderable pins
- Wiper positioning: 50% nominal



3006 Series



3362P Series



3362W Series

3006 Series • Adjustment angle: 15 turns nominal

Part No.	Product No.	Ohms	1	10	100	500
62973	3006P1-101	100	$1.15	$.95	$.75	$.59
181972	3006P1-201	200	1.15	$.95	$.75	$.59
63001	3006P1-204	200K	1.15	.95	.75	.59

Top Adjustment

3362P Series •Adjustment angle: 2400 nominal

Part No.	Product No.	Ohms	1	10	100	500
182799	3362P1-500	50	$.79	$.65	$.55	$.45
182801	3362P1-200	200	.79	.65	.55	.45
182810	3362P1-501	500	.79	.65	.55	.45
182828	3362P1-502	5K	.79	.65	.55	.45
182836	3362P1-103	10K	.79	.65	.55	.45
182844	3362P1-204	200K	.79	.65	.55	.45
182852	3362P1-105	1M	.79	.65	.55	.45

Side Adjustment

3362W Series

Part No.	Product No.	Ohms	1	10	100	500
182861	3362W1-500	50	$.79	$.65	$.55	$.45
182879	3362W1-201	200	.79	.65	.55	.45
182887	3362W1-501	500	.79	.65	.55	.45
182895	3362W1-102	1K	.79	.65	.55	.45

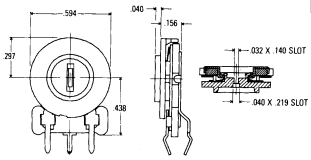
CTS 1/4 Watt 15mm Miniature Potentiometers (±20%)

X201 (19/32") Vertical Mount

Reduced Pricing

- Rim to guide screwdriver
- Voltage rating: 350 VDC
- Reliable CTS composition resistance element
- Power rating: below 5kΩ – 1/4 watt @ 40°C
  5kΩ & above – 1/4 watt @ 55°C
- Angle of rotation: total rotation: 260° ±5°
- Resistance taper: linear

Equivalent to:	
CTS	X201R
Bourns	3355X
PIHER	PT15



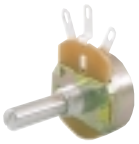


94692

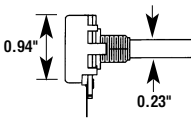
Part No.	Product No.	Ohms	1	10	100	500
161859	X201R150	150	$.43	$.29	$.15	$.09
94684	X201R500	500	.33	.27	.15	.065
94692	X201R1K	1K	.45	.35	.29	.25
35502	X201R252B	2.5K	.45	.35	.29	.25
94705	X201R5K	5K	.45	.35	.29	.25
94713	X201R10K	10K	.45	.35	.25	.19
172136	X201R25K	25K	.33	.27	.15	.065
94721	X201R50K	50K	.33	.27	.15	.065
94730	X201R100K	100K	.45	.35	.29	.25

JAMECO 5 Watt Linear Taper Wire Wound Potentiometers (±20%)

- 5 watt @ 70˚C ambient
- Temperature range: -10˚C to 70˚C
- Shaft diameter: 0.23" (6mm)
- Shaft length: 0.67", except P/N 140521 (0.25")
- Mounting hole: 0.32"
- Max. panel thickness: 0.1"
- Solder eyelet diameter: 0.055" x 0.13"
- Non-rotational key
- Includes mounting hardware



140513



Part No.	Product No.	Ohms	1	10	50	100
140513	PW5B100	100	$2.95	$2.49	$1.95	$1.75
140521	PW5B500	500	2.95	2.49	1.95	1.75

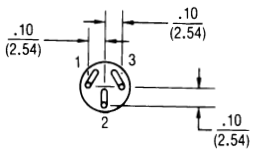
1/2 Watt 1/4" Round Single-Turn Cermet Potentiometers (±10%)

- 1/2 watt linear taper @ 85°C
- Sealed to withstand wave soldering and immersion cleaning process
- Extended temperature range: -55°C to +150°C • TO-5 grid
- Top adjustment
- Terminals: solderable pins

Equivalent to:	
Beckman	82M
Bourns	3329P
Mepcopal	8050
MEC	471
Murata	3321P
Spectrol	62-3
VRN	171
Weston	567



95484



Part No.	Product No.	Ohms	1	10	100	500
95441	3329P1K	1K	$.99	$.79	$.55	$.45
95450	3329P5K	5K	.99	.79	.55	.45
96719	3329P10K	10K	.99	.79	.55	.45
95484	3329P100K	100K	.99	.79	.55	.45

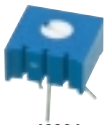
We carry major manufacturers – call for large OEM pricing.

1/2 Watt 3/8" Square Single-Turn Cermet Potentiometers (±10%)

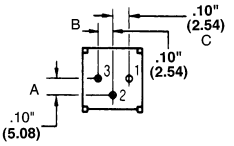
- 1/2 watt linear taper @ 70°C
- PC pins: .100" grid (2.54mm)
- TO-5 grid • Top adjusting
- Sealed to guard against contaminants
- Temp. range:-55°C to +125°C

† Dimension A = .20"

Equivalent to:	
Beckman	72PR
Bourns	3386P
Mepcopal	8038
Murata	3104P
Spectrol	63P
VRN	780-12P
Weston	840P



42964



Part No.	Product No.	Ohms	1	10	100	500
43123	63P500★	500	$.79	$.65	$.55	$.45
42964	63P1K★	1K	.79	.65	.55	.45
43043	63P2K	2K	.79	.65	.55	.45
43078	63P5K★	5K	.79	.65	.55	.45
43001	63P10K★	10K	.79	.65	.55	.45
43051	63P20K★	20K	.79	.65	.55	.45
43107	63P50K★	50K	.79	.65	.55	.45
43027	63P100K★	100K	.79	.65	.55	.45
43060	63P300K †	300K	.65	.49	.25	.15
63212	63P500K	500K	.79	.65	.55	.45
42981	63P1MEG★	1M	.79	.65	.55	.45
105216	63P2MEG †	2M	.65	.49	.25	.15

HDK 7mm Trimming Potentiometers (±20%)

Horizontal and Vertical Mount



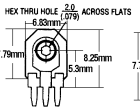
161867

- Power rating: 0.1 watt
- 7mm round single turn • Open frame
- Cross slot and hexagon adjustment design
- Dust and splash resistant
- PC board mount w/ retention type leads

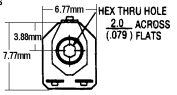
✳ **Prepackaged: please order in increments of 10 or 100**



161891



Vertical



Horizontal

Part No.	Product No.	Ohms	Mount	1	10	100	500
161867	T470	470	Horiz	✳	$.12	$.09	$.06
161883	T20K	20K	Horiz	✳	.12	.09	.06
161891	T50K	50K	Vertl	✳	.10	.08	.05

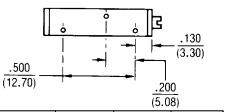
3/4 Watt 3/4" Rectangular 15-Turn Cermet Potentiometers (±10%)

- 3/4 watt linear taper @ 70°C
- PC pins: .100" grid (2.54mm)
- Side adjusting
- Sealed to guard against contaminants
- Temp. range: -55°C to +125°C

Equivalent to:	
Beckman	89PR
Bourns	3006P
Mepcopal	8034
Murata	2101P
Spectrol	43P
VRN	961-20
Weston	830P



41911



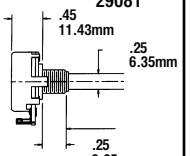
Part No.	Product No.	Ohms	1	10	100	500
41937	43P500★	500	$1.15	$.95	$.75	$.59
41785	43P1K★	1K	1.15	.95	.75	.59
41865	43P2K	2K	1.15	.95	.75	.59
41890	43P5K★	5K	1.15	.95	.75	.59
41822	43P10K★	10K	1.15	.95	.75	.59
41873	43P20K★	20K	1.15	.95	.75	.59
41911	43P50K★	50K	1.15	.95	.75	.59
41849	43P100K★	100K	1.15	.95	.75	.59
41953	43P500K★	500K	1.15	.95	.75	.59
41806	43P1MEG★	1M	1.15	.95	.75	.59

JAMECO 1/2 Watt Linear Taper Potentiometers (±10%)

- 1/2 watt @ 70°C ambient
- Temperature range: -55°C to +125°C
- Non-rotational key
- Non-slotted shaft end
- Mounting hole: 0.3125"
- Shaft diameter: 0.25"
- Shaft length: 0.5625"
- Max. panel thickness: 0.1875"
- Solder eyelet diameter: 0.0625"
- Includes mounting hardware
- Weight: .03 lbs.



29081



Part No.	Product No.	Ohms	1	10	100	500
29049	P1K★	1K	$.99	$.79	$.65	$.55
29196	P5K★	5K	.99	.79	.65	.55
29081	P10K★	10K	.99	.79	.65	.55
29102	P100K★	100K	.99	.79	.65	.55
29065	P1MEG★	1M	.99	.79	.65	.55

JAMECO 2 Watt Linear Taper Potentiometers (±20%)

- 2 watt @ 70°C ambient
- Temp. range: -10°C to +70°C
- Shaft diameter: 0.25"
- Shaft length: 0.825"
- Mounting hole: 0.375"
- Max. panel thickness: 0.15"
- Solder eyelet diameter: 0.07"
- Non-rotational key • Base length: 0.25"
- Includes mounting hardware
- Weight: .03 lbs. • See knobs – pg 46



123959

Part No.	Product No.	Ohms	1	10	100	500
123959	PT1K	1K	$2.95	$2.49	$2.25	$1.75
123967	PT5K	5K	2.95	2.49	2.25	1.75

Senix Distance Sensor Modules

Sends out a sound wave 20 times per second and calculates the distance based on the time from send to receive back. The distance is represented by an output voltage from 0 to 10VDC (P/N 134105) or RS232 signal (P/N 151482).



134105

- Sensing range: 4" to 60" • Sensor diameter: 1.8"
- Requires 15 to 24VDC @ 40mA (not included), recommend P/N 114825 (pg 88)
- Board size: 2.8"L x 1.8"W x 0.9"H
- One-year warranty

134105: • Output voltage: 0-10VDC • Weight: 0.2 lbs.
- Each 1VDC increment = 5.6" (e.g.: 1VDC output = 9.6")

151482: • RS232 output • Weight: 1.0 lb.
- Includes disk and computer cable

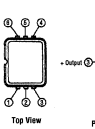
Part No.	Description	1	10
134105	Sensor – voltage output	$159.95	$143.95
151482	Sensor – RS232 output	179.95	161.95

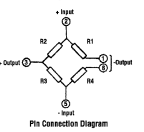
Servoflo 0.5% Pressure Sensor

0 – 7 psi



- Pressure range: 0 – 7 psi
- Max. load pressure: 1.5x rated pressure
- Input excitation: 1.5mA
- Span output: 60-140mV
- Bridge resistance: 5KΩ ±1KΩ
- Accuracy: ±5% full scale
- High output, accuracy and stability • Low noise
- Applications: industrial process control, medical equipment, environmental controls • 1/8" diameter tubing is applicable
- Size: 0.5"L x 0.5"W x 0.2"H





Pin Connection Diagram

Part No.	Product No.	1	10	100
163731	FPM07PG	$9.95	$8.95	$6.95

Servoflo 0.125% Pressure Sensor

0 – 5 psi



- Pressure range: 0 – 5 psi
- Maximum load pressure: 2x rate pressure
- Output voltage: 0 – 4.5V
- Operating voltage: 5V@10mA
- Pressure type: gauge pressure
- Pressure media: non-corrosive gas
- Accuracy: ±0.125 psi at 25°C; ±0.250 psi at -10 to 65°C
- High level output, on-chip signal conditioned, temperature compensated, and calibrated pressure transducers • 1/8" tubing applicable
- Applications: industrial process control, medical equipment, environmental controls
- Size: 0.6"L x 0.5"W x 0.2"H

Part No.	Product No.	1	10	100
173657	XFPN-050-KPGT1	$12.95	$11.49	$9.95

JAMECO 24VDC Liquid Level Sensors

Fill and Empty Type

176241: Control Box



176241

- Input voltage: 24VDC@10A
- Output voltage: 24VDC@10A
- Size: 2.1"L x 2.1"W x 1.6"H
- Weight: 0.2 lbs.

176250 (Fill) / 176268 (Empty)



176250

- Maximum contact rating: 10W
- Maximum switching voltage: 100VDC
- Maximum switching current: 0.5A
- Minimum breakdown voltage: 220VDC
- Carry current: 1A
- Maximum contact resistance: 100mΩ
- Size: 2.6"L • Weight: 0.1 lbs.

Part No.	Description	1	10	25
176241	Control box	$14.95	$13.49	$11.95
176250	Sensor fill type	9.95	8.95	7.95
176268	Sensor empty type	9.95	8.95	7.95

JAMECO Flex Sensor



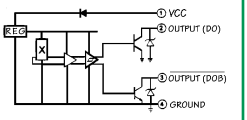
- Nominal resistance: 10KΩ
- Maximum resistance is 30KΩ to 40KΩ proportional to the sensor as it flexes or bends
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

Part No.	Description	1	10	100
150551	Flex sensor	$10.95	$9.95	$8.49

JAMECO Latched Hall Effect Sensor

Complimentary Open Collector Output





- Operating voltage: 20Vcc @ 25mA max.
- SP (south pole) = on; NP (north pole) = off
- Output compatible with all digital logic families

Part No.	Product No.	1	10	100	1000
169691	HI400	$.79	$.65	$.49	$.35

JAMECO Latched Hall Effect Sensor



- Supply voltage: 20Vcc @ 4mA (typical)
- Supply voltage range: 2.4 to 20V
- SP (south pole): on; NP (north pole): off
- Max. operating point: <130 (gaues)
- Max. release point: <-130 (gaues)

Part No.	Product No.	1	10	100	1000
174043	HI-300	$.75	$.59	$.45	$.29

JAMECO® 12-Button Keypad

Rugged Metal Type



- 7-position PCB solder pads
- Tactile type keypad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Metal chrome body
- Size: 2.8"L x 2.2"W x 0.6"H
- Weight: 0.3 lbs.

Part No.	Description	1	10	100
171491	12-button keypad	$19.95	$17.95	$15.95

JAMECO® 16-Button Keypad

4 x 4 Matrix Type



- 8-position solder pad
- Contact rating: 24VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 life cycles per key
- Size: 3.0"L x 2.8"W x 0.6"H • Weight: 0.2 lbs.

Part No.	Description	1	10	100
169244	16-button keypad	$6.95	$6.25	$5.59

JAMECO® 12-Button Keypad Switch

Telephone Type

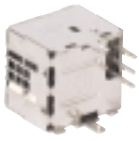


- 8-pin 0.100" header
- Tactile type keypad
- Contact rating: 12VDC @ 20mA
- Contact resistance: 200Ω max.
- Life test: 1,000,000 cycles per key
- Color: white • Weight: 0.1 lbs.
- Size: 2.8"L x 2.2"W x 0.6"H

Part No.	Description	1	10	100
153488	12-button keypad switch	$5.95	$5.35	$4.49

Infrared Remote Control Receiver Modules


131908


176541


139889


165008

- Used in TVs, VCRs, audio equip, car stereos and home computers
- Single unit module which incorporates a PIN diode and a receiving preamplifier IC
- 940nm wavelength
- 5VDC @ 2mA except P/N 165008 (3.5VDC @ 2.5mA)
- Size: 0.6"L x 0.6"W x 0.5"H
- Excellent mechanical strength and electrical stability
- Weight: 0.1 lbs.

176541: • 4.7–5.3VDC input

Part No.	Description	1	10	100	1000
131908	38.0kHz infrared remote receiver, side view	$2.95	$2.49	$1.75	$1.25
176541	56.8kHz infrared remote receiver, side view	2.95	2.49	2.25	1.95
139889	37.9kHz infrared remote receiver, top view	2.95	2.49	1.95	1.49
165008	40.0kHz infrared remote receiver, top view	2.95	2.75	2.49	2.25

16-Button Keypad Switch


160071


103190

- 9-pin 0.100" headers
- Fully sealed snap-dome contact
- For indoor or outdoor use
- Contact rating: 24VDC @ 10mA resistive
- Life test: 3,000,000 cycles per key
- Compatible with MOS, TTL and DTL (10Ω max.)
- Recommended connector: P/N 103190 header & 100765 pin (✳10 pcs min.) • Weight: 0.06 lbs.
- Size (housing): 4.7"W x 1.7"H x 0.4"T

✳ **Prepackaged: please order in increments of 10 or 100**

Part No.	Description	1	10	100
160071	16-button (2x8) keypad	$6.95	$5.95	$4.95
103190	Header housing (10-pin)	✳	.19	.12
100765	Header pin (10 per pack)	✳	.10	.06

12VDC Inductive Proximity Switch Sensors

Cylindrical and Square Styles


155547


167020


155563 (2mm)


155571 (5mm)


155580 (10mm)

- Operating voltage range: 10VDC-30VDC
- Nominal operating voltage: 12VDC
- Current consumption: 10mA max.
- Switching frequency: 1.0kHz (P/N 155580); 1.5kHz (P/Ns 155547/155563/155571/167020)
- Sensing target: inductive type – magnetic metal
- Sensing distance: ±10% (tin)
- Short circuit protected • LED indicator
- Fast response • 6' long cable • Pre-tinned pigtail

Part Number	Product Number	Output Circuit	Effec. Dist. (Iron)	Stand. Target (Iron) (mm)	Size (L" x W" x H")	Mounting Hole (in.)	Pricing 1	10	25
155547	S1805N1	NPN	0-4.0mm	17 x 17 x 1	1.4 x 1.4 x 0.7	0.112	$9.95	$8.95	$7.95
167020	TS1202N1	NPN	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	14.95	13.49	11.95
155563	TS1202P1	PNP	0-1.6mm	12 x 12 x 1	1.8"L x 0.46"Dia.	0.46	14.95	13.49	11.95
155571	TS1805N1	NPN	0-4mm	18 x 18 x 1	1.6"L x 0.70"Dia.	0.7	19.95	17.95	15.95
155580	T3010N2	NPN	0-8mm	30 x 30 x 1	2.0"L x 1.17"Dia.	1.17	24.95	22.49	19.95

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- Manufacturer Resources

www.jameco.com

Temperature Switches

- Operational life: 100,000 cycles
- Contact resistance: 50mΩ or less


169682 Fig. 1


169674 Fig. 2


159636 Fig. 3


169666 Fig. 4


172374 Fig. 5

Part No.	Product No.	Fig.	Temperature	Contact Current	Contact Voltage	Mounting	Terminal	Agency Approval	Weight (lbs.)	Pricing 1	10	100	1000
SPST – NC (Normally Closed) Temperature Switch													
169682	T24A145BRF120	1	145°C (293°F)	15A	125V	Flat Surface	0.187" Quick Disconnect	UL, CUL	.01	$1.49	$1.35	$1.19	$1.09
169674	T23A14BRF120	2	145°C (293°F)	15A	125V	Stud Mount	M4 x 0.7 Stud	UL, CUL, VDE	.01	1.49	1.35	1.19	1.09
159636	7AM202	3	75°C (167°F)	5A	120V	PCB	1.64"L Leads	UL, CSA	.01	.59	.49	.39	.25
169666	T26095	4	95°C (203°F)	13.5A	125V	Panel	0.176" Quick Disconnect	UL	.02	.69	.59	.49	.39
SPST – NO (Normally Open) Temperature Switch													
172374	T24B145BSF1-20	5	145°C (293°F)	15A	125V	Flat Surface	0.187" Quick Disconnect	UL, CUL	.02	1.49	1.35	1.19	1.09

Aluminum Instrumentation Knobs
(1/8" and 1/4" Shaft Diameters)

- Includes set screw for secure attachment
- Weight: 0.1 lbs.

138384: • Coarse surface for sensitive control


162481 Fig. 1


138384 Fig. 2


162499 Fig. 3


138481 Fig. 4

Part No.	Product No.	Figure	Description	Shaft Dia. (in.)	Size (in.) Dia.	Height	1	10	100
162464	K5-1/8S	1	Silver position pointer	.125	.50	.56	$.99	$.85	$.59
162481	K5-1/4S	1	Silver position pointer	.250	.50	.56	.99	.85	.59
138384	KD500G	2	Silver position pointer	.125	.50	.63	1.25	1.09	.89
162499	K5-1/4B	3	White position pointer	.250	.50	.56	1.25	1.09	.89
162472	K5-1/8B	3	White position pointer	.125	.50	.56	1.25	1.09	.89
138481	KN031	4	Black position pointer	.250	.61	.65	1.25	1.09	.89
138501	KN032	4	Black position pointer	.250	.87	.75	1.49	1.25	1.09
138510	KN033	4	Black position pointer	.250	1.18	.87	1.95	1.65	1.39

JAMECO® Instrumentation Knobs
(1/4" Shaft Diameters)

- Fits 0.25" shafts
- Weight: .02 lbs.


102787 104176 138392

102787/104176: • Brass insert and set screw for strength and durability
- Compatible with all Jameco rotary switches (opposite page)

136240: • Used with 1/2 watt and 2 watt linear taper potentiometers (pg 43 &44)

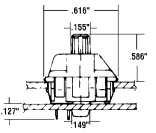
138392: • Brass insert, dual set screws
- Black knob with inset chrome top

Part No.	Product No.	Size	1	10	100
102787	KN141★	1.25"L x .54"H..	$.59	$.49	$.39
104176	KN143★	.75"D x .49"H...	.69	.59	.49
136240	KN145	.54"D x .52"H...	.79	.65	.49
138392	PKG90B	.85"D x .56"H...	.89	.75	.59

CHERRY Keyboard Switch

- Normally open, momentary normally closed
- PC mount
- Contact rating: 10mA max.
- Voltage: 12V max. (AC/DC)
- Initial contact resistance: 200mΩ (typical 25mΩ)
- Life: 5V/1mA (50 million cycles)
- Current: 10mA max. • Rating: 10mA @ 12V
- Size: 0.616" square x 0.586"H • Weight: 0.01 lbs.



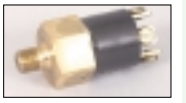


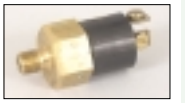
Face Plate Mount

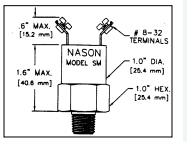
Part No.	Description	1	10	100	500
152320	MX1A-11NN	$.79	$.65	$.49	$.39

NASON Pressure Switches
4 PSI SPST-NO/SPDT

- Snap action switch
- Factory preset
- Pressure: 4 PSI (pounds per square inch) rising
- Set point tolerance: ±1 PSI or 5%
- Max. operating pressure: 250 PSI
- Proof pressure: 750 PSI
- Current rating: 5 amps
- Media connection: 1/8" NPT male brass
- Electrical connection: 8-32 screw terminals
- Weight: 0.2 lbs.


167353


167361

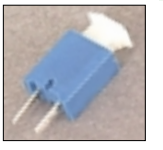


Part No.	Product No.	Circuit	1	10	100
167353	NASM2C4R832	SPDT	$12.95	$11.49	$9.95
167361	NASM2A4R832	SPST-NO	12.95	11.49	9.95

JAMECO® Plunger Switch
No Shorting Block to Lose

- SPST (on/off)
- Contact rating: 50mA @ 24VDC
- Non-removable plunger
- Size: 0.2"W x 0.1"D x 0.38"H
- Lead length: 0.1"L

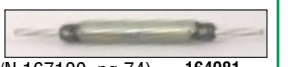
✳ **10 piece minimum**



Part No.	Description	10	100	1000
172700	Plunger switch.....✳	$.19	$.15	$.10

JAMECO® Magnetic Reed Switch

- NO (normally open)
- Can be activated with rare earth magnet (P/N 167100, pg 74)
- SPST (single pole single throw)


164081

171871: • Rating: 500mA @ 100VDC
- Size: 1.73"L x 0.1"Dia. (length includes leads)

164081: • Rating: 1A @ 250VAC; 1A @ 50VDC
- Size: 2.35"L x 0.2"Dia. (length includes leads)

Part No.	Product No.	1	10	100	1000
171871	MKA141011015	$.79	$.65	$.55	$.45
164081	MRS1	.99	.85	.65	.49

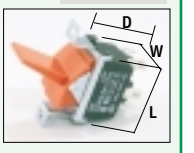
Replacement Switches for Computer Cases

See page 163 for computer cases!

For Jameco & most other cases.

PC Toggle Switch

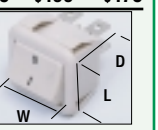
- For many desktop and large tower cases
- DPST • 250V @ 10A
- UL/CSA/VDE approved
- Size: 1.2"L x 0.7"W x 1.1"D



Part No.	Description	Wt. (lbs.)	1	10	100
127036	PC toggle	0.05....	$1.25	$.99	$.75

PC Rocker Switch

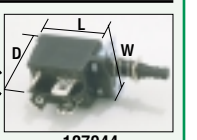
- For mini-tower cases • DPST
- UL/CSA approved • 250V @ 10A
- Size: 0.9"L x 1.2"W x 1.4"D



Part No.	Description	Wt. (lbs.)	1	10	100
127028★	PC rocker	0.03....	$1.49	$1.25	$.99

PC Push Button Switch

- Alternate action switch (DP)
- **127044:** 250V @ 7.5A
- **174328:** 250V @ 8A
- UL/CSA/VDE approved
- Size: 0.9"L x 0.7"W x 0.9"D

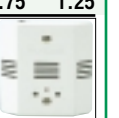


127044

Part No.	Description	Wt. (lbs.)	1	10	100
127044	PC push button	0.04....	$1.95	$1.75	$1.25
174238	PC push button	0.04.....	1.95	1.75	1.25

Motion Detector Switch

- Replaces standard wall switch
- Mini spout load: 80W/120V • Wt.: 0.9 lbs.
- Maxi spout load: 1000W/120V
- Auto off switch • Size: 5.0"L x 5.0"W x 1.4"H
- Sensitivity and timer adjustment (5-25 minutes)



Part No.	Description	1	10	50
122892	Motion detector switch	$10.95	$9.95	$8.95

Tactile Switches

- Switching capacity: 50mA @ 12VDC resistive load
- ( ) momentary • Contact resistance: 100MΩ
- Bounce time: 10 msec. • Weight: .01 lbs.

✳ **10 piece minimum**

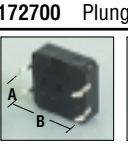


Fig. 1

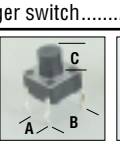


Fig. 2


Fig. 3


Fig. 4


Fig. 5

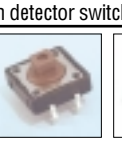

Fig. 6


Fig. 7


Fig. 8

Part No.	Product No.	Fig.	Pins	Type	Dimensions (L" x W" x D")	Lead Spacing A"	B"	C"	Contact Rating	Lead Type	Button Color	1	10	100	250
137189	PBS103	1	4	SPST off-(on)	.47 x .47 x .17	.20	.50	—	50mA @ 12VDC	PC	Black	$.29	$.25	$.19	$.15
122972	DTS1212	1	4	SPST off-(on)	.47 x .47 x .18	.20	.50	—	20mA @ 15VDC	PC	Black	.29	.25	.19	.15
119010	KTIIBICM	2	4	SPST off-(on)	.24 x .24 x .15	.17	.25	.03	20mA @ 15VDC	PC	Black	✳	.19	.15	.12
153251	SDTX620K★	2	4	SPST off-(on)	.24 x .24 x .15	.17	.25	.06	150mA @ 12VDC	PC	Black	.29	.25	.15	.12
149948	KT11P4CM	2	4	SPST off-(on)	.24 x .24 x .15	.17	.25	.17	20mA @ 15VDC	PC	Black	✳	.19	.15	.12
162886	B3F-1000	2	5	SPST off-(on)	.24 x .24 x .12	.19	.26	.04	50mA @ 24VDC	PC	White	✳	.19	.12	.10
115086	KIE22	3	2	SPST off-(on)	.24 x .24 x .22	—	.25	—	20mA @ 15VDC	PC	Blue	✳	.19	.12	.10
155248	KRS-3550-BK	4	2	SPST off-(on)	.24 x .14 x .15	—	.27	—	50mA @ 12VDC	PC	Black	.35	.29	.25	.15
155256	KRS-3550-WH	4	2	SPST off-(on)	.24 x .14 x .15	—	.27	—	50mA @ 12VDC	PC	White	.35	.29	.25	.15
162878	SKHHLM	5	2	SPST off-(on)	.24 x .24 x .27	.18	—	.05	5mA @ 5VDC	PC right angle	Red	✳	.15	.10	.08
175652	PBS35	6	4	SPST off-(on)	.31 x .31 x .10	.20	.35	—	20mA @ 15VDC	PC	Black	✳	.19	.15	.12
155379	KRS-1273B	6	4	SPST off-(on)	.47 x .47 x .14	.17	.53	.14	50mA @ 12VDC	PC	Brown	.39	.29	.25	.19

Tactile Switch Caps

Part No.	Product No.	Fig.	Description	Size (inches)	Material	For Use With	Color	1	10	100	250
155389	KRS-CAP-A	7	Tactile switch cap (square)	.47"L x .47"W x .16"H	Plastic	P/N 155379 (above)	Black	✳	$.15	$.12	$.09
155408	KRS-CAP-B	8	Tactile switch cap (round)	.5"Dia. x .25"H	Plastic	P/N 155379 (above)	Black	✳	.15	.12	.09

Mountain Switch Push Button Switches

Reduced Pricing

- ( ) momentary • Contact rating: 3A @ 125VAC except P/N 106112 (3A @ 110VAC)
- Lead type: solder terminal except P/N 106112 (solder lugs) • 2-pins


Figure 1


Figure 2


Figure 3


Figure 4


Figure 5


Figure 6


Figure 7


Figure 8


Figure 9


Figure 10


Figure 11

Part No.	Product No.	Fig.	Type	Dimensions	Lead Spacing	Mounting Hole	Button Color	Pricing 1	10	100	1000
Miniature Soft Touch Switches											
164486	DS463R	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Red	$2.49	$2.29	$2.09	$1.89
164494	DS450R	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Red	2.49	2.29	2.09	1.89
164507	DS463B	1	SPST off-(on)	1.2"L x .59"Dia.	.175"	.387"	Black	1.95	1.85	1.75	1.59
164515	DS450B	1	SPST off-on	1.2"L x .59"Dia.	.175"	.387"	Black	2.49	2.29	2.09	1.89
164523	DS466R	2	SPST off-(on)	1.2"L x .60"Dia.	.196"	.377"	Red	2.49	2.29	2.09	1.89
164558	DS471R	3	SPST off-(on)	1.24"L x .75"W x .6"D	.210"	.382"	Red	1.95	1.85	1.75	1.59
Standard Touch Switches											
164566	MS402R	4	SPST off-(on)	.73"L x .22"Dia.	.078"	.190"	Red	$1.49	$1.39	$1.25	$1.15
164574	MS402B	4	SPST off-(on)	.76"L x .27"Dia.	.078"	.190"	Black	1.49	1.39	1.25	.99
164582	DS016B	5	SPST off-(on)	.88"L x .46"Dia.	.220"	.354"	Black	1.49	1.39	1.25	1.15
164611	DS131B	6	SPST off-(on)	.97"L x .80"Dia.	.366"	.647"	Black	1.65	1.59	1.49	1.39
Standard Switches											
164638	MS3120R	7	SPST off-(on)	1.1"L x .31"Dia.	.175"	.268"	Red	$.89	$.79	$.69	$.55
164654	NS801LR	8	SPST off-(on)	1.3"L x .31"Dia.	.175"	.268"	Red	1.09	.95	.85	.65
164671	NS801MOB	9	SPST off-(on)	1.1"L x .59"Dia.	.213"	.468"	Black	2.49	2.25	1.95	1.75
Molded Plastic Switches											
106112	DS412R	10	SPST off-(on)	.63"L x .66"Dia.	.275"	.750"	Red	$1.19	$.99	$.89	$.85
164689	DS430B	11	SPST off-(on)	1.03"L x .55"Dia.	.250"	.487"	Black	1.49	1.39	1.09	.99

APEM® Push Button and Toggle Switches

172144/172110: 600H/600NH Series (Full Toggle Switches)

- Initial contact resistance: 10mΩ max. • Insulation resistance: 1000MΩ min. @ 500VDC
- Mounting hole: 1/2" dia. • Dielectric strength: 2000Vrms min.
- **172144:** Lever type – flat • **172110:** Lever type – round

171758/171766: IP Series (Full Push Button Switches)

- Initial contact resistance: 50mΩ max. • Insulation resistance: 1GΩ min. @ 500VDC • Panel mount
- Dielectric strength: 1500Vrms min. • Mechanical life: 1,000,000 cycles min. • Mounting hole: 1/2" dia.

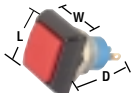
171774/171782: AV Series (Full Push Button Switches)

- Initial contact resistance: 10mΩ max. • Insulation resistance: 1000 MΩ min.
- Dielectric strength: 1000Vrms min. • Panel mount • Mounting hole: 3/4" dia.


172144 (Fig. 1)


172110 (Fig. 2)


171758 (Fig. 3)



171766 (Fig. 4)


171774 (Fig. 5)


171782 (Fig. 6)

Part Number	Product Number	Fig	Pins	Type Description	Dimensions L	W	D	Lead Spacing A	B	C	Contact Rating	Lead Type	Pricing 1	10	100	250
600H/600NH Series (Full Toggle Switches)																
172144	631NH/2	1	2	SPST On-Off	1.16"	0.47"	0.60"	—	0.58"	—	15A @ 250VAC	Fast-On	$3.95	$3.49	$2.95	$2.49
172110	641H/2	2	4	DPST On-Off	1.17"	0.84"	0.80"	0.45"	0.58"	—	15A @ 250VAC	Fast-On	4.95	4.49	3.95	3.49
IP Series (Full Push Button Switches)																
171758	IPR3SAD2	3	2	SPST Off-(On)	0.82"	—	0.46"	—	0.19"	—	0.2A @ 250VAC	Solder	8.95	7.95	6.95	5.95
171766	IPC3SAD6	4	2	SPST Off-(On)	0.82"	0.69"	0.46"	—	0.19"	—	0.2A @ 250VAC	Solder	8.95	7.95	6.95	5.95
AV Series (Full Push Button Switches)																
171774	AV191003C900	5	2	SPST Off-(On)	1.20"	—	0.87"	—	0.37"	—	2A @ 48VDC	Screw	8.95	7.95	6.95	5.95
171782	AV19301ZQE	6	2	SPST Off-(On)	1.31"	—	0.73"	—	0.21"	—	2A @ 48VDC	Solder	9.95	8.95	7.95	6.95

Slide Switches

- Two mounting flanges • Top actuation • UL approved
- Black nylon actuator • Phenolic insulated • Metal housing
- Weight: 0.01 lbs. † Plastic housing – flanges


161808


109170



138886


169842


161816

Part No.	Product No.	Pins	Type	Description	Dimensions L"	W"	D"	Lead Spacing (A")	Contact Rating	Lead Type	Length of Leads	Height Actuator	1	10	100	250
161808	S102	3	SPDT on-on	PC mount	.78	.41	.31	.20	6.0A @ 125VDC	SIP .70"	.26"	.07"	$.25	$.22	$.19	$.12
109170	SW153	3	SPDT on-on	PC mount	.22	.45	.23	.12	0.5A @ 50VDC	Solder pins	.17"	.15"	.35	.29	.22	.17
138886	SW141	3	SPDT on-on	PC panel mount	.55	.90	.29	.25	5.0A @ 125VDC	Solder pins	.38"	.39"	.59	.49	.35	.29
169842	SW380	3	SPDT on-on	PC panel mount	.88	.54	.25	.21	10.0A @ 125VDC	Solder pins	.31"	.33"	.79	.69	.59	.49
161816	SW300A†	6	DPDT on-on	PC mount	.38	.14	.13	.11	0.1A @ 20VDC	Solder pins	.11"	.08"	.59	.49	.39	.29

Basic Precision Switches (Type SS/VS)®

- 3 terminals: common; normal closed; normal open
- Dielectric strength: 1000VAC 50/60Hz for 1 min.
- Insulation resistance: 100MΩ min. (@ 500VDC) • Type: NO-NC common


159599


159572


159581

Part Number	Product Number	Description	Rating	Contact Resistance (initial)	Service Life Mechanically	Electrically	Terminals Type	Agency Approval	Pricing 1	10	100
159599	SS0505A	Subminiature	5A @ 125VAC	30milliΩ max.	10 million	200,000	.127" quick discon.	UL	$1.95	$1.49	$.99
159572	VS10N051C	Micro (T90S1D12-12)	10A @ 250VAC	15milliΩ max.	10 million	100,000	.183" quick discon.	UL/CSA	1.95	1.49	.99
159581	VS10N021C2	Micro	10A @ 250VAC	15milliΩ max.	10 million	100,000	.183" quick discon.	UL/CSA	1.95	1.49	.99

Full Size Toggle Switches

(Panel Mount)

† Lead wires

- Mounting hole diameter: 1/2"
- Full-size round lever
- Medium duty toggle switches (current range to 6 amp)
- Keyed plate indicates switch position
- Weight: .05 lbs.

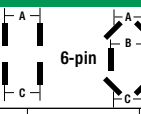
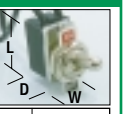


Figure 1



Figure 2



Part No.	Product No.	Fig.	Pins	Type/Description	Dimensions L"	Dimensions W"	Dimensions D"	Lead Spacing A"	Lead Spacing B"	Lead Spacing C"	Contact Rating	Lead Type	Lever Type	1	10	100	250
76241	SWM128	1	2	SPST on-off w/ on/off plate	1.00	.56	.52	.23	—	—	4A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	$1.09	$.89	$.69	$.45
158060	JKN32	1	4	DPST on-off w/ on/off plate	1.00	.56	.52	.23	—	.23	4A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.45
76259	SWM126	1	6	DPDT on-on w/ on/on plate	1.12	.77	.60	.30	.60	.40	5A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
158078	JKN3CC	1	6	DPDT on-on w/ on/on plate	1.19	.76	.73	.44	.59	.44	10A @ 125VAC & 6A @ 250VAC	Screw lugs	Round	1.25	.99	.79	.59
76232	SWM125	2	2†	SPST on-off w/ on/off plate	1.00	.53	.51	—	—	—	6A @ 125VAC & 3A @ 250VAC	6" lead wire	Round	1.25	.99	.79	.59

Miniature Toggle Switches

- Mounting hole diameter: 1/4"
- ( ) momentary
- Includes mounting hardware
- Weight: .02 lbs.

Figure 3

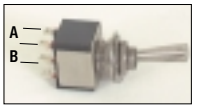


Figure 4

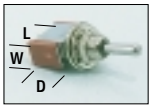


Figure 5

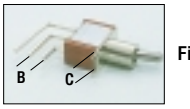


Figure 6



Part No.	Product No.	Fig.	Pins	Type	Dimensions L"	Dimensions W"	Dimensions D"	Lead Spacing A"	Lead Spacing B"	Lead Spacing C"	Contact Rating	Lead Type	Lever Type	1	10	100	250
76523	JMT113★	3	2	SPST on-off	.52	.32	.38	—	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	$1.09	$.89	$.69	$.55
21936	JMT123★	3	3	SPDT on-on	.52	.32	.38	—	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
21910	JMT121★	3	3	SPDT on-off-on	.52	.32	.38	—	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
22832	LFH123	3	3	SPDT on-on	.52	.28	.36	—	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Flat	1.09	.89	.69	.49
75854	SWM132	3	3	SPDT on-on	.52	.32	.38	—	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
75889	SWM129	3	3	SPDT (on)-off-(on)	.52	.32	.38	—	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
26331	MPC123	3	3	SPDT on-on	.52	.32	.37	—	.185	—	6A @ 125VAC & 3A @ 250VAC	PC	Round	1.15	.95	.75	.59
26315	MPC121	4	3	SPDT on-off-on	.52	.32	.37	—	.185	—	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.15	.95	.75	.49
71597	SWM148	5	3	SPDT on-on	.52	.32	.38	—	.185	.20	5A @ 125VAC & 2A @ 250VAC	PC right angle	Round	1.09	.89	.59	.45
75871	SWM145	6	3	SPDT on-on	.32	.52	.38	—	.185	.20	6A @ 125VAC & 3A @ 250VAC	PC right angle	Round	1.09	.89	.69	.55
22841	LFH221	3	6	DPDT on-off-on	.52	.52	.38	.20	.185	—	3A @ 125VAC & 1A @ 250VAC	Solder lugs	Flat	1.09	.89	.69	.55
21979	JMT223★	3	6	DPDT on-on	.52	.52	.38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
22859	LFH223	3	6	DPDT on-on	.52	.52	.38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Flat	1.09	.89	.69	.55
105814	SWA208	3	6	DPDT on-(on)	.52	.52	.38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
75900	SWM133	3	6	DPDT on-on	.52	.52	.38	.20	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
21952	JMT221★	3	6	DPDT on-off-on	.52	.52	.38	.20	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
75951	SWM130	3	6	DPDT (on)-off-(on)	.52	.52	.38	.20	.185	—	6A @ 125VAC & 3A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.49
26366	MPC223	3	6	DPDT on-on	.52	.52	.38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.09	.89	.59	.45
26358	MPC221	3	6	DPDT on-off-on	.52	.52	.38	.20	.185	—	5A @ 125VAC & 2A @ 250VAC	PC	Round	1.09	.89	.69	.49

Subminiature Toggle Switches

- Mounting hole diameter: 7/32"
- Includes mounting hardware
- Metal construction
- Pre-tinned leads
- Weight: .01 lbs.

Figure 7

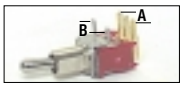
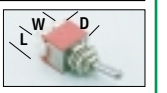


Figure 8



Figure 9



Part No.	Product No.	Fig.	Pins	Type	Dimensions L"	Dimensions W"	Dimensions D"	Lead Spacing A"	Lead Spacing B"	Contact Rating	Lead Type	Lever Type	1	10	100	250
106067	SWP124	7	3	SPDT on-on	.25	.33	.40	.20	.10	0.4VA Max.	PC right angle	Round	$1.49	$1.25	$.99	$.79
72160	SW1501	8	2	SPST on-off	.33	.21	.33	—	.10	1.5A @ 250VAC	Solder lugs	Round	1.09	.89	.69	.55
75969	SWM136	8	3	SPDT on-on	.33	.21	.33	—	.10	3A @ 125VAC	Solder lugs	Round	1.09	.89	.69	.49
72557	SW1502	8	3	SPDT on-off-on	.33	.21	.33	—	.10	1.5A @ 250VAC	Solder lugs	Round	.99	.79	.59	.45
138907	SW1503	8	6	DPDT on-off-on	.36	.37	.33	.17	.10	3A @ 120VAC	Solder lugs	Round	.99	.79	.59	.45
75977	SWM137	9	6	DPDT on-on	.33	.37	.33	.17	.10	1.5A @ 250VAC	Solder lugs	Round	.99	.79	.59	.45

Push Button Switches

- Alt = alternate action
- ( ) momentary
- P/N 95177: Quick connect/solder/right angle leads
- P/N 163352: Push button door switch
- Weight: .01 lbs.

† Lead wires

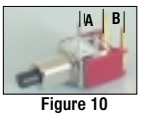


Figure 10

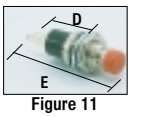


Figure 11

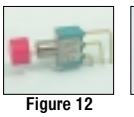


Figure 12

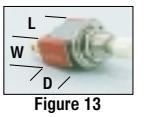


Figure 13



Figure 14

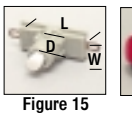


Figure 15

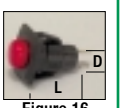
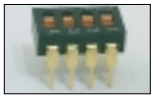
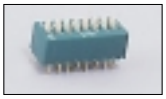
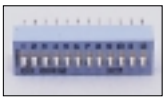


Figure 16

Part No.	Product No.	Fig.	Pins	Mounting Hole Dia.	Type	Dimensions (L" x W" x D")	Lead Spacing A"	Lead Spacing B"	Contact Rating	Lead Type	Button Color	1	10	100	250
71642	SWB210	10	2	7/32"	SPST off-(on)	.20 x .33 x .36	.20	.20	1A @ 120VAC	PC right angle	Black	$1.49	$1.25	$.99	$.69
26622	MS102★	11	2	1/4"	SPST off-(on)	.65 (D) x 1.10 (E)	—	.14	3A @ 125VAC	Solder lugs	Red	.49	.39	.32	.25
162237	MS103RED	11	2	1/4"	SPST on-(off)	.46 (D) x 1.00 (E)	—	.15	3A @ 125VAC	Solder lugs	Red	.35	.29	.19	.15
26649	MS103★	11	2	1/4"	SPST on-(off)	.65 (D) x 1.10 (E)	—	.17	3A @ 125VAC	Solder lugs	Black	.49	.39	.32	.25
154878	PS11-123	12	3	1/4"	SPST on-(on)	.50 x .27 x .37	—	.14	5A @ 125VAC	Solder, right angle	Red	.59	.49	.39	.25
121304	CK8121	13	3	1/4"	SPDT on-(on)	.52 x .27 x .38	—	.185	1A @ 120VAC	Solder lugs	White	3.49	2.95	2.49	2.15
28062	PB126	13	3	1/4"	SPDT on-(on)	.52 x .28 x .38	—	.185	5A @ 120VAC	Solder lugs	Red	3.49	2.95	2.49	2.25
174414	R13-510A	16	2	1/2"	SPST off-(on)	.67 (L) x .31 (D)	—	.167	3A @ 125VAC	Solder lugs	Red	1.09	.89	.69	.55
22200	J1881	14	2†	3/8"	SPST on-off, Alt	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	White	1.09	.89	.69	.55
22218	J1882	14	2†	3/8"	SPST off-(on)	.65 x .52 x .40	.25	—	2A @ 14VDC	5" Pigtail	Red	1.09	.89	.69	.55
163352	23101MX1	15	2	7/16"	SPST off-(on)	1.1 x .51 x .35	—	—	1A @ 28VDC	Solder lugs	White	.25	.19	.12	.09

DIP Switches

139002 
38842 
139011 
38800 

- Switch contacts: SPST • Pre-tinned leads
- Easy activation • 50VDC @ 100mA • Wt.: .06 lbs.
- Switches are numbered • Molded construction
- Standard-raised lever (not on LP switches) • LP – low profile lever (switch is flush to casing)

Compatible Jameco Socket Chart (pg 54)

Switch	Socket	Switch	Socket	Switch	Socket
109057	112192	**38834**	37161	**38797**	38607
38818	51570	**38842**	37372	**38800**	39378
139002	51570	**139011**	37372		
38826	37161	**101856**	38113		

Part Number	Product Number	No. of Pos.	1	10	100	1000
109057	206-2	2	$.79	$.65	$.55	$.45
38818	206-4	4	.79	.65	.55	.45
139002	206-4LP	4	.79	.65	.55	.45
38826	206-6	6	.79	.65	.55	.45
38834	206-7	7	.79	.65	.55	.45
38842	206-8★	8	.79	.65	.55	.45
139011	206-8LP	8	.79	.65	.55	.45
101856	206-9	9	.65	.55	.45	.29
38797	206-10	10	.99	.75	.55	.39
38800	206-12	12	1.15	1.05	.95	.85

JAMECO Tri-State DIP Switch

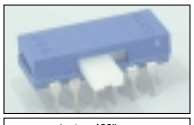


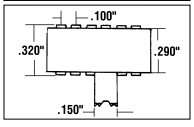
- Switch contacts: bussed, tri-state
- Labeled tri-state positions (+, 0, -)
- 24VDC @ 25mA
- Two isolated busses • Pre-tined leads
- Compatible socket, use P/N 37372 (pg 54)

Part Number	Product Number	No. of Pos.	Pricing 1	10	50	100
138991	ETA108E	8	$1.95	$1.75	$1.49	$1.15

ALCO 12-Pin DIP Slide Switch

Side Actuator

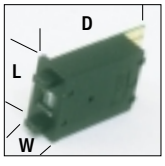




- 4PDT side actuator
- Right angle lever type
- Contacts: gold over nickel
- Contact rating: 0.4VA; 20VDC max.; shorting type
- Insulation resistance: 1000MΩ @ 500VDC min.
- Life expectancy: 15,000 cycles min.
- Pin spacing: 0.1" center pin to center pin
- Size: (body) 0.7"L x 0.3"W x 0.17"H (actuator) 0.2"L x 0.2"W x 0.1"H

Part No.	Product No.	1	10	100
159433	ASE42RG	$.75	$.59	$.55

Mini Push-Button Binary Switch



- Operating temperature: -10°C to +65°C
- 28VDC @ 10A • Straight PCB
- 0.12" character height
- Snap together
- Break before make
- Positive logic ("0" all open output)
- Size: .59"L x .30"W x 1.0"D
- Weight: .01 lbs.

Part Number	Product Number	Description	1	10	100
136557	MX061	10 pos. straight BCD	$3.49	$2.95	$2.49

JAMECO Rotary Switches



- Mounting hole diameter = 3/8" • Make before break
- Solder lugs • Contact rating: 30VDC @ 0.3A
- Panel mount • Washer and nut included
- Compatible with Jameco rotary knobs P/N 102787 and 104176 (pg 46)
- Material: solid brass bushings, slotted aluminum shafts, plated frame, phenolic contact wafer (except for P/N 101565 – plastic casing)
- Contact resistance: 30mΩ • Weight: 0.06 lbs.

Part No.	Product No.	Layers	Poles	Pos.	Ins. Res. (min.)	Lug Size (in.)	Shaft Size (LxD)	1	10	100
101531	RS026	1	1	12	10MΩ	.07	0.46" x 0.25"	$1.19	$.95	$.75
101573	RS022	1	2	6	10MΩ	.07	0.46" x 0.25"	1.19	.95	.75
101565	RS023	1	3	4	10MΩ	.07	1.16" x 0.25"	1.19	.95	.75
101557	RS024	1	4	3	10MΩ	.07	0.46" x 0.25"	1.19	.95	.75

Excell Rotary DIP Switches

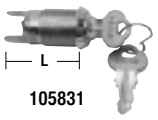

139635

139651

- Gold plated contacts to ensure reliable, low resistance connection
- Molded-in terminals and fully sealed construction • Terminals: PC pin leads
- Material: 94V-0 grade, UL approved fire retardant plastic
- Max. load rating (switching): 25mA @ 24VDC
- Op force: 500gf-cm max. • Life: 10,000 cycles min. • Shape: square • Color: blue

Part No.	Product No.	Position	Adjust	Code Type	Size (W" x D" x H")	1	10	50	100
139635	ERD110RS(DRD10)	10	top	BCD	0.39 x 0.39 x 0.20	$2.95	$2.49	$2.25	$1.95
139651	ERD116RS	16	top	Hex	0.39 x 0.20 x 0.39	2.95	2.49	2.25	1.95

JAMECO SPST Round Keylock Switches


106649


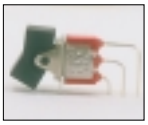
105831

- Key removable from 2 positions • Use for computer replacement
- Includes mounting nut • Recommended for security systems
- Mounting hole = 0.75" except P/N 106649 = 0.5"
- Two keys • Weight: 0.2 lbs.

Part No.	Product No.	No. Flat, Dia.	Length	Style	Terminal	Voltage/Current	1	10	50	100
106649	KS4B	2, .21"	.55"	SPST	Barrel	125VAC/3A	$2.95	$2.49	$2.25	$1.75
105831	KS3B	2, .66"	1.48"	SPST	.25" quick connect	125VAC/6A	3.95	3.75	3.25	2.95

C&K Rocker and Lever Type Switches

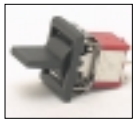
- Contact rating: 5A @ 120VAC; 2A @ 250VAC • ( ) momentary
- Electrical life: 50,000 make and break cycles at full load • Contact resistance: 10milliΩ typical
- Insulation resis.: 10MΩ min. • Dielectric strength: 1000 VRMS @ sea level • Operating temperature: -30°C to 85°C


181788

140530 (Vertical)

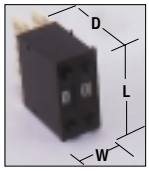
155045 (Horiz.)

159741/159767

163344

163336

173500

Part No.	Product No.	Pins	Type	Dimensions (ins.) L	W	D	Lead Spacing	Lead Type	Pricing 1	10	100	1000
181788	RA910VBBOV	2	SPDT on-off	.88	.47	.71	.265"	Panel mt. solder eyelet	$.65	$.45	$.39	$.29
140530	CK7101	3	SPDT on-on	.50	.50	.27	.150"	Right angle PC (vert)	1.25	1.05	.89	.75
155045	CK7101A3	3	SPDT on-on	.50	.50	.27	.185"	Right angle PC (horz)	.65	.45	.39	.29
159741	CK7101U11	3	SPDT on-on	.50	.28	.37	.185"	Panel mt. solder eyelet	.65	.45	.39	.29
159767	CK7103U13	3	SPDT on-off-on	.50	.28	.37	.185"	Panel mt. solder eyelet	.65	.45	.39	.29
163344	CKD103J5W	3	SPDT on-off-on	.67	.47	.59	.200"	Panel mt. solder eyelet	.45	.39	.29	.19
163336	CK7201J60	6	DPDT on-on	.50	.45	.35	.200"	Panel mt. lead pins	.45	.39	.29	.19
173500	300DP7	6	DPST - n(f)-f(n)	.50	.45	.34	.200"	Panel mt. solder eyelet	.65	.49	.35	.25



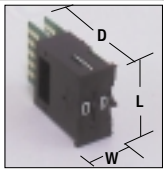
Push-Button Binary Coded Decimal (BCD) Switch

26788 (2 switches shown)

Reduced Pricing

Thumbwheel Binary Coded Decimal (BCD) Switch

(2 switches shown) 26817



Pushbutton and Thumbwheel Switch Specifications:

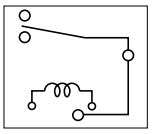
- Contact resistance: 100mΩ max. • Break before make • 0.15A @ 50VAC/28VDC • Weight: .01 lbs.
- 1/16" maximum panel thickness • Continuous load: 1 amp max. • Switches snap together
- Gold plated BE-CU alloy contacts • Operating temperature: -40°C to +85°C • Front snap tab mounting

Part No.	Product No.	Description	Size (L" x W" x D")	Char. Height	1	10	50	100
26788	MX72	10-position push-button	1.3 x 0.4 x 1.0	0.19"	$3.95	$3.75	$3.49	$3.25
26761	MXEP2	End plates for MX72	—	—	.99	.85	.69	.55
26817	MX83	10-position thumbwheel	1.1 x 0.1 x 1.5	0.25"	3.95	3.75	3.49	2.95
26770	MXEP3	End plates for MX83	—	—	.99	.85	.69	.55

Small High Current PC Mount T7C/T72/T81H/T90/RKA/VR15 Series Relays

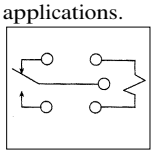
An inexpensive means of switching loads up to 30 amps. While these small, low-cost relays are designed primarily for the appliance industry and heating, ventilating and air conditioning markets, they are also well suited for automotive load management and other applications.

- Electrical life expectancy is 100,000 operations at rated loads
- PC board terminals
- Meets UL class F insulation standard
- Mechanical life expectancy is 10 million operations
- Dielectric strength: 1,500Vrms (between contact and coil)
- Weight: .06 lbs. • Terminal type: PCB solder
- Operating temperature: **134949:** -40°C to +85°C; **104926/129349:** -40°C to +125°C
- **104926:** Open frame relay
- **129349:** Immersion cleanable, plastic sealed case
- **144186**: For use with universal relay card (P/N 128910 – pg 110)


134949/104926
129349/145752


129349 (Fig 1)


104926 (Fig 2)


144186


144186 (Fig 3)


174457


174431


174385

Part Number	Jameco Product Number	Potter & Brumfield Cross Reference	Fig.	Coil Voltage	Coil (Ohms)	Style	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing 1	10	50	100
174431	LEG12F	T7CS5D12	—	12VDC	400	SPDT	120VAC/24VDC	15A	5	.76 x .62 x .60	**$1.49**	**$1.29**	**$1.19**	**$1.09**
174422	LEG-24	T725D16424	—	24VDC	1600	SPDT	240VAC/24VDC	10A	5	.76 x .62 x .60	**1.39**	**1.19**	**1.09**	**.99**
174449	LU-5	T81H5D215	—	5VDC	125	SPDT	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	**1.95**	**1.79**	**1.59**	**1.39**
174457	LU-12	T81H5D2112	—	12VDC	720	SPDT	120VAC/24VDC	1A/2A	6	.60 x .40 x .45	**1.95**	**1.79**	**1.59**	**1.39**
134949	FKD130PSDC5V	T90S5D12-5	1	5VDC	27	SPDT	240VAC/28VDC	30A	6	1.3 x 1.1 x .80	**2.25**	**1.95**	**1.75**	**1.49**
145752	T90S1D12-12	T90S1D12-12	1	12VDC	155	SPST	240VAC	30A	5	1.2 x 1.0 x .77	**2.95**	**2.49**	**2.25**	**1.95**
104926	733SPDT12VDC	T90N5D12-12	2	12VDC	155	SPDT	240VAC/28VDC	20A/10A	6	1.2 x .90 x .63	**2.49**	**2.25**	**1.95**	**1.49**
129349	832-IC-S	T90S5D12-12	1	12VDC	155	SPDT	277VAC/28VDC	20A/10A	6	1.2 x 1.0 x .75	**2.49**	**2.25**	**1.95**	**1.49**
173690	L90-24	T90N5D12-24	2	24VDC	660	SPDT	277VAC/30VDC	20A	6	1.1 x .90 x .55	**2.25**	**1.95**	**1.75**	**1.49**
173569	L90-24W	T90S5D1224	1	24VDC	660	SPDT	277VAC/30VDC	20A	6	1.2 x 1.1 x .77	**2.49**	**2.25**	**1.95**	**1.75**
174393	LM1-12D	RKA5DG12	—	12VDC	270	SPDT	250VAC/30VDC	10A	5	1.2 x .48 x 1.0	**2.49**	**2.25**	**1.95**	**1.75**
174377	LM2-12D	RKA5DZ12	—	12VDC	270	DPDT	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	**2.49**	**2.25**	**1.95**	**1.75**
174406	LM1-24D	RKA5DG24	—	24VDC	1100	SPDT	250VAC/30VDC	10A	5	1.2 x .48 x 1.0	**2.49**	**2.25**	**1.95**	**1.75**
174385	LM2-24D	RKA5DZ24	—	24VDC	1100	DPDT	250VAC/30VDC	5A	8	1.2 x .48 x 1.0	**2.49**	**2.25**	**1.95**	**1.75**
144186	JZC-22F	VR15M121C	3	12VDC	337	SPDT	120VAC/28VDC	15A	5	0.8 x .64 x .80	**2.95**	**2.49**	**2.25**	**1.95**

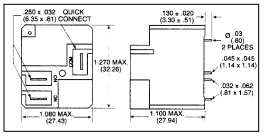
Low Cost PC Board or Panel Mount Only

T9A Series Relays

- Mechanical life expectancy is 10 million operations
- Weight: 0.1 lbs.

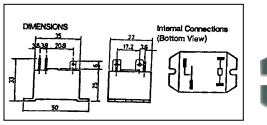
137365/137357: • Operating temperature: -55˚C to +85˚C
• Dielectric strength: 1500VAC (between open contacts)

137349: • Operating temperature: -40˚C to +70˚C
• Dielectric strength: 1200VAC (between open contacts)


137365


137365


137357



137349

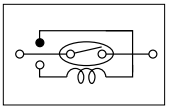

137349

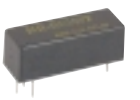
Part Number	Jameco Product No.	Potter & Brumfield Cross Reference	Coil Voltage	Coil (Ohms)	Style	Contact Voltage	Contact Current	Pins	Terminal Type	L x W x H (in.)	Pricing 1	10	50	100
137365	953-IC-12DA	T9AS5D22-12	12VDC	155	SPDT	240VAC/28VDC	NO: 20A NO: 10A	5	PCB Solder (5) .25" disconnect (2)	1.25 x 1.0 x 1.25	**$2.75**	**$2.49**	**$2.25**	**$1.95**
137357	953-IC-12DM	T9AS5D52-12	12VDC	155	SPDT	240VAC/28VDC	NO: 20A NO: 10A	5	.1" disconnect (2) .25" disconnect (2)	2.0 x 1.6 x 1.8	**2.95**	**2.49**	**2.25**	**1.95**
137349	949-1A-12D	T9P1D52-12	12VDC	120	SPST (NO)	250VAC/28VDC	30A	4	.25" disconnect (2) .187" disconnect (2)	2.0 x 1.25 x 1.25	**3.95**	**3.49**	**2.95**	**2.49**

Reed Type Relays

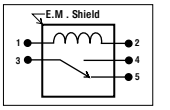
- Dielectric strength: 500VDC (between contact and coil)
- Operating temperature: -35°C to +85°C
- Normally open (NO), normally closed (NC)• Weight: .01 lbs.

111448





168356





Part Number	Product Number	Manufacturer	Coil Voltage	Coil (Ohms)	Style	Contact Voltage	Contact Current	Pins	Terminal Type	L x W x H (in.)	Pricing 1	10	50	100
111448	RC108T	Han Kuk	12VDC	550	SPDT-NO	250VAC/150VDC	0.1A	4	PCB solder	1.0 x .37 x .38	**$1.75**	**$1.49**	**$1.25**	**$1.09**
168356	R8864-2	ELEC-TROL	12VDC	1080	SPDT	28VDC (max.)	0.25A	5	PCB solder	1.1 x .35 x .32	**2.25**	**1.95**	**1.75**	**1.49**

T9A Relay (SPST N.O.)

Potter and Brumfield Type



- Contact volt: 120/240VAC
- Coil volt: 12VDC • Contact curr.: 30A
- Terminal type: PCB solder (4); 0.25" disconnect (2)
- Temperature range: -55˚C to +55˚C
- Mechanical life expectancy: 10 million operations
- Insulation resistance: greater than 100MΩ @ 500VDC
- Size: 1.3'L x 1.0'W x 1.1"H • UL/CSA listed

Part No.	Product No.	1	10	50	100
169463	T9AS1D2212	**$2.25**	**$1.95**	**$1.75**	**$1.49**

SHARP Solid State Relays

DC to AC


164996

164988: • Output: 125VAC @ 1.5A
• Input volt: 1.2Vf @ 20mA (If)
• On-state volt: 1.5Vrms
• Zero cross volt: 35V (If = 15mA)

164996: • Effective on-state curr.: 2Arms
• Input volt 1.2Vf @ 20mA • Output: 265VAC @ 2.5A
• Operating freq.: 45-65Hz • Isolation volt: 3000Vrms

Part No.	Product No.	1	10	50	100
164988	S101S02	**$3.95**	**$3.49**	**$2.95**	**$2.49**
164996	S202TA1	**3.95**	**3.49**	**2.95**	**2.49**

Aromat Ultra Miniature Power Relay

Potter & Brumfield T72 Type Relay



- Enclosed relay • Pins: 5
- Contact form: SPDT
- Coil voltage: 12VDC
- Contact voltage: 125VAC/24VDC
- Coil resistance: 400Ω
- Contact current: 10A/5A
- Terminal type: PCB solder
- Size: 0.85"L x 0.62"W x 0.63"H

P&B cross reference: T72M5D121-12

Part No.	Product No.	1	10	50	100
172937	JS1-12V	**$1.19**	**$1.09**	**$.99**	**$.85**

General Purpose Relays

Pin Type Terminals – Series 78

See page 53 for Relay Sockets!

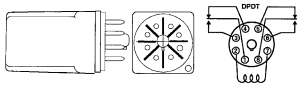


- Contact voltage: 10A @ 240VAC

Part Number	Jameco Product Number	P & B Cross Reference	Coil (voltage)	Coil (Ohms)	Style	Pins	Pricing 1	10	50
172718	SCL12DPDT	K10UP21D1512	12VDC	160Ω	DPDT	8	$4.95	$4.49	$3.95

Pin Type Terminals – Series 250

- Contact voltage: 120/240VAC, 28VDC @ 10 amp
- Plug-in mounting with see-through dust covers
- High dielectric strength • AC or DC operated coils
- Ambient temp. operating: -10˚C to +50˚C
- Size: 1.4"L x 1.4"W x 2.7"H • Weight: 0.1 lbs.





139740

Part Number	Jameco Product Number	NTE Cross Reference	Coil (voltage)	Coil (Ohms)	Style	Pins	Pricing 1	10	50
139766	BTA1-2C-12VDC	R02-11D10-12	12VDC	120Ω	DPDT	8	$6.95	$6.25	$4.95
139740	BTA1-2C-120VAC	R02-11A10-120	120VAC	1.9KΩ	DPDT	8	6.95	6.25	4.95

Relay Type Project Cases for above Relays

155096



Part No.	Product No.	No. of Pins	Compatible Sockets	1	10	100
155096	RC8	8	141145/152590	$2.95	$2.49	$2.25
155088	RC11	11	141153	2.95	2.49	2.25

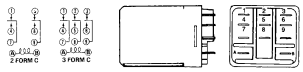
Quick Connect Blade Terminals – Series 388

Flat terminals (0.187" x 0.020") for standard plug-in mounting also accept quick-connect receptacles or direct soldering.

139862



- Contact voltage: 120VAC/28VDC @ 13A/240VAC @ 10A
- Ambient temp. operating: -30˚C to +50˚C
- Weight: 0.2 lbs. • Size: 1.5"L x 1.4"W x 2.2"H

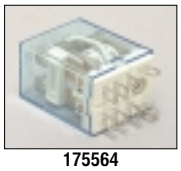


Part Number	Jameco Product Number	NTE Cross Reference	Coil (voltage)	Coil (Ohms)	Style	Pins	Pricing 1	10	50
139862	BTA1-2C-24VDC	R02-11D10-12	24VDC	460Ω	DPDT	8	$6.95	$5.95	$5.59
139854	BTA2-3C-24VDC	R10-14D10-24	24VDC	470Ω	3PDT	11	6.95	6.25	4.95
139838	BTA2-3C-120VAC	R10-14A10-120	120VAC	2.13KΩ	3PDT	11	6.95	6.25	4.95

Rayex General Purpose Relays

Potter and Brumfield Type LB2 Series

- Insulation resistance: 1,500MΩmin. @ 500VDC
- Mechanical life: 10,000,000 operations
- Contact voltage/current: 240VAC/30VDC @ 12A
- Contact resistance: 100mΩ max. • UL approved
- Electrical life: 100,000 operations min. at rated load



175564

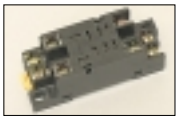


175572

Part Number	Product Number	P & B Cross Reference	Coil Voltage	Coil Resistance	Style	Pins	Wt. lbs.	Pricing 1	10	50	100
172718	SCL12DPDT	K10UP21D1512	12VDC	160	DPDT	8	0.1	$4.95	$4.49	$3.95	$3.49
175564	LB2-24DS	K10UP11D1524	24VDC	650	DPDT	8	0.1	4.75	4.25	3.75	3.25
175572	LB2-110AS	K10UP11A15120	110VAC	3900	DPDT	8	0.1	4.95	4.49	3.95	3.49

Rayex LB2 Socket

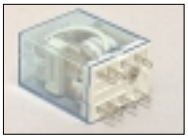
• Din rail snap socket for LB2 relays



Part Number	Product Number	P & B Cross Reference	Pins	Weight lbs.	Pricing 1	10	50
175530	PTF08AA	27E895	8	0.1	$3.95	$3.49	$2.95

Rayex LB2H Series

- Insulation resistance: 1,500MΩ min. @ 500VDC
- Mechanical life: 10,000,000 operations
- Contact voltage/current: 240VAC/24VDC @ 10A
- Contact resistance: 100mΩ max. • UL approved
- Electrical life: 100,000 operations min. at rated load



175581

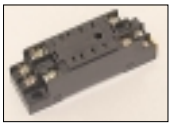


175599

Part Number	Product Number	P & B Cross Reference	Coil Voltage	Coil Resistance	Style	Pins	Wt. lbs.	Pricing 1	10	50	100
175581	LB2H-24DS	KHAU11D1124	24VDC	650	DPDT	8	0.1	$4.75	$4.25	$3.75	$3.25
175599	LB2H-110AS	KHAU11A11120	110VAC	3900	DPDT	8	0.1	4.95	4.49	3.95	3.49

Rayex LB2H Socket

• Din rail snap socket for LB2 relays



Part Number	Product Number	P & B Cross Reference	Pins	Weight lbs.	Pricing 1	10	50
175548	PYF08AA	—	8	0.1	$3.95	$3.49	$2.95

Rayex General Purpose Relays

LB4H Series



175601

- Insulation resistance: 1,500MΩ min. @ 500VDC
- Mechanical life: 10,000,000 operations
- Contact resistance: 100mΩ max.
- Electrical life: 100,000 operations min. at rated load
- Contact voltage/current: 240VAC/24VDC @ 5A
- Style: 4PDT • Pins: 14
- Weight: 0.1 lbs.



175610

175601:

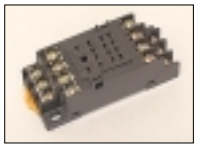
- P&B cross reference: KHAU17D1224
- Coil voltage: 24VDC
- Coil resistance: 650

175610: • P&B cross reference: KHAU17A12120

- Coil voltage: 110VAC
- Coil resistance: 3900

Part No.	Product No.	1	10	50	100
175601	LB4H-24DS	$4.95	$4.49	$3.95	$3.49
175610	LB4H-110AS	5.49	4.95	4.49	3.95

Rayex General Purpose Relays



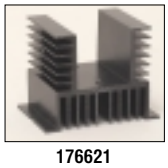
LB4H Socket

- Din rail snap socket for LB4H relays
- 14 pins • Weight: 0.1 lbs.

P&B cross reference: PYF14AA

Part No.	Product No.	1	10	50
175556	PYF14AA	$3.95	$3.49	$2.95

Solid State Heatsinks

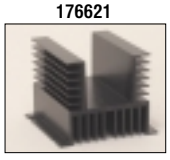


176621

- For SS type KD/KG/KL relays
- Color: black
- 0.24" side mounting blocks

176621: Heatsink for 5/10/15A relays

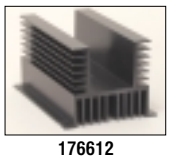
- Size: 4.0"L x 2.8"W x 3.2"H
- Weight: 0.8 lbs.



176639

176639: Heatsink for 25A relays

- Size: 4.0"L x 4.0"W x 3.2"H
- Weight: 1.1 lbs.



176612

176612: Heatsink for 40A relays

- Size: 5.9"L x 4.0"W x 3.2"H
- Weight: 1.6 lbs.

Part No.	Product No.	1	10	50	100
176621	KH114-70	$9.95	$8.95	$7.95	$6.95
176639	KH114-100	14.95	13.49	11.95	9.95
176612	KH114-150	19.95	17.95	15.95	13.95

Solid State Relay Cover



- For SS relay type KD/KG/KL relays
- Clear plastic
- Size: 2.4"L x 1.8"W x 1.0"H
- Weight: 0.03 lbs.

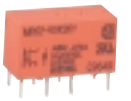
Part No.	Product No.	1	10	50
176701	KSC1	$1.49	$1.35	$1.19

DIP Relays

We carry major manufacturers – call for large OEM pricing.

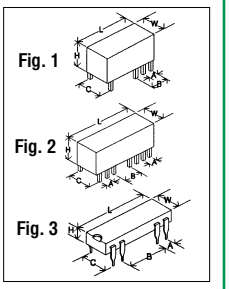
- Logic control levels
- Moisture resistant
- Compatible with IC sockets
- Long life with reliable operation
- Compact design/ construction
- Excellent for PCB applications
- Weight: .02 lbs.

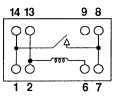

106462

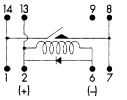

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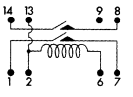

99901

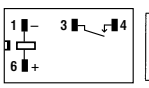

136549

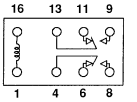


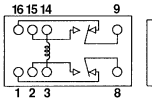

Schematic 1

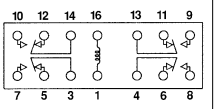

Schematic 2


Schematic 3


Schematic 4


Schematic 5

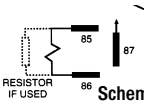

Schematic 6


Schematic 7

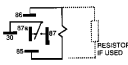
Part Number	Product Number	Manufacturer	Contact Schem.	Coil Voltage	Coil Resistance	Contact Form	Contact Voltage	Contact Current	Pin	Jameco Socket	Fig.	Package L x W x H (in.)	Leads A x B x C (in.)	Pricing 1	10	50	100
106462	201A05	Excel Cell Elect.	1	5VDC	500 Ω	SPST	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	$2.25	$1.95	$1.75	$1.49
138430	2D1A05	Excel Cell Elect.	2	5VDC	500 Ω	SPST	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.25	1.95	1.75	1.49
106471	201A12	Excel Cell Elect.	1	12VDC	1000 Ω	SPST	100VDC	0.5A	8	37161	3	.78 x .25 x .20	.10 x .40 x .30	2.25	1.95	1.75	1.49
138448	2D1A1200	Excel Cell Elect.	2	12VDC	1000 Ω	SPST	100VDC	0.5A	8	37161	3	.77 x .30 x .22	.10 x .40 x .30	2.25	1.95	1.75	1.49
138456	202A05	Excel Cell Elect.	3	5VDC	140 Ω	DPST	100VDC	0.5A	8	37161	3	.77 x .30 x .28	.10 x .40 x .30	2.49	2.25	1.95	1.75
167281	G6B2114P-US	OMRON	4	12VDC	480 Ω	SPST	250VAC/30VDC	5A	6	37372	1	.78 x .43 x .43	.32 x .42 x .33	2.95	2.49	2.25	1.95
129875	DS2EMDC5V★	NEC (MR62-5)	5	5VDC	62.5 Ω	DPDT	125VAC/30VDC	.6A/1A	8	37372	1	.79 x .40 x .39	.20 x .40 x .30	3.95	3.49	2.95	2.25
173913	AZ831-2C-5DSE	Zetler	5	5VDC	125 Ω	DPDT	125VAC/100VDC	.5A/1.25A	8	37401	1	.79 x .38 x .44	.18 x .28 x .29	2.25	1.95	1.75	1.49
139977	RSB5S	Shin Mei	5	5VDC	125 Ω	DPDT	120VAC/30VDC	1A/2A	8	37372	1	.79 x .39 x .37	.20 x .40 x .30	2.49	2.25	1.95	1.75
18593	HB25★	Aromat	6	5VDC	43.4 Ω	DPDT	125VAC/30VDC	1A/2A	8	37372	1	.79 x .43 x .63	.10 x .20 x .30	4.95	4.49	3.95	3.25
99338	LM12C00	Clare	5	6VDC	71 Ω	DPDT	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.25	1.95	1.75	1.49
99311	DS2Y-S-DC12V	Aromat (NAIS)	5	12VDC	720Ω	DPDT	110VAC/30VDC	.3A/1A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	4.95	4.49	3.95	3.49
99901	LX200D00	Clare	5	12VDC	720 Ω	DPDT	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .30	.20 x .40 x .30	5.95	5.35	4.79	4.29
18577	HB212★	Aromat	6	12VDC	250 Ω	DPDT	125VAC/30VDC	.5A/1A	8	37372	1	.79 x .44 x .60	.10 x .20 x .30	4.95	4.49	3.95	3.49
99320	LM12E00	Clare	5	24VDC	1110Ω	DPDT	125VAC/100VDC	2A	8	37372	1	.79 x .40 x .43	.20 x .40 x .30	2.49	2.25	1.95	1.49
136549	DS4E-M-DC5V	Aromat	7	5VDC	62.5 Ω	4PDT	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	4.95	4.49	3.95	3.25
176313	DS4E-M-DC12V	Aromat	7	12VDC	360Ω	4PDT	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	5.95	5.35	4.79	4.29
176305	DS4E-M-DC24V	Aromat	7	24VDC	1440Ω	4PDT	125VAC/30VDC	.6A/2A	14	112299	2	1.40 x .40 x .36	.20 x .30 x .30	6.95	6.25	5.59	4.95

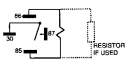
Potter and Brumfield Type Plastic Enclosed Construction Relays

- Dielectric strength: 500VDC (between contact and coil)
- Operating temperature: -35°C to +85°C
- Wt.: .01 lbs.
- Normally open (NO), normally closed (NC)
- Terminal type: quick connect
- *See page 53 for relay sockets*



Schematic 1


Schematic 2


Schematic 3


171467 (Fig. 1)


171432 (Fig. 2)


171441 (Fig. 3)

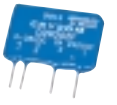

171459 (Fig. 4)

Part Number	Product Number	P&B Cross Reference	Figure	Coil Voltage	Coil (Ohms)	Style	Contact Schematic	Contact Voltage	Contact Current	Pins	L x W x H (in.)	Pricing 1	10	50	100
VFM Type Relay															
171467	VFM11F11K01	VFM11F11K01	1	12VDC	123	SPST-NO	1	14VDC	20A	4	.78 x .60 x .87	$1.95	$1.75	$1.25	$.99
VF4 Type Relays															
171521	LD5F	VF445D11	2	5VDC	14	SPDT	2	12VDC	40A	5	1.1 x 1.1 x 1.0	$2.25	$1.95	$1.75	$1.49
171441	VF411F11	VF411F11	3	12VDC	90	SPST-NO	3	14VDC	40A	4	1.1 x 1.1 x 1.0	1.95	1.75	1.49	1.25
171432	VF481F11	VF481F11	2	12VDC	90	SPST-NO	3	14VDC	40A	4	1.1 x 1.1 x 1.0	1.95	1.75	1.49	1.25
171459	VF481F11S01	VF481F11S01	4	12VDC	78	SPST-NO	3	14VDC	40A	4	1.1 x 1.1 x 1.0	1.95	1.75	1.25	.99
148582	LD12F	VF485F11	2	12VDC	78	SPDT	2	12VDC	40A	5	1.1 x 1.1 x 1.0	2.49	2.25	1.95	1.75
171889	LD24F	VF485H11	2	24VDC	320	SPDT	2	24VDC	40A	5	1.1 x 1.1 x 1.0	2.49	2.25	1.95	1.75

DC/AC and DC/DC Solid State Relays

- Screw terminal with hardware (except P/N 127790)
- Photo isolation
- Metal mounting base
- Wt.: 0.2 lbs.
- UL, CUL, CSA approved

* Refurbished product † Zero crossing

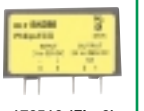

127790 (Fig. 1)


153058 (Fig. 2)


138940 (Fig. 3)


162341 (Fig. 4)


176735 (Fig.5)


173518 (Fig.6)

Part Number	Product Number	Mfg.	Control Voltage	Type	Contact Style	Contact Voltage	Contact Current	Pins	Fig.	Terminal Type	Agency Approval	L x W x H (ins.)	Pricing 1	10	50	100
Solid State Relays DC/AC Type																
127790	D2W202F	Crydom	3-28VDC	DC/AC	SPST	240VAC	2A	4	1	Solder Lead	—	1.7 x 0.4 x 1.3	$9.95	$8.95	$7.95	$7.25
175214	KB20C02A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 1.5	7.95	6.95	6.25	5.59
153058	KSD203AC2	COSMO	4-32VDC	DC/AC	SPST	240VAC	3A	4	2	Solder Lead	—	1.4 x 0.3 x 0.9	9.95	8.95	7.95	7.25
173518	RLYB4280	Phillips	3-32VDC	DC/AC	SPST	280VAC	4A	4	6	Solder Lead	—	1.7 x 0.4 x 1.5	10.95	9.95	8.95	7.95
176698	KB20C06A	Kyoto	3-32VDC	DC/AC	SPST	280VAC	6A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	9.95	8.95	7.95	6.95
105081	615-8500	Teledyne	3-32VDC	DC/AC	SPST	250VAC	10A	4	3	Screw Terminal	UL	2.3 x 1.7 x 1.1	14.95	13.49	12.95	11.49
139053*	240D25	OPTO 22	3-32VDC	DC/AC	SPST	240VAC	25A	4	3	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.0	17.95	15.95	14.49	12.95
138940*	D2440	Crydom	3-32VDC	DC/AC	SPST	240VAC	40A	4	3	Screw Terminal	UL/CSA	2.3 x 1.7 x 1.0	19.95	17.95	15.95	14.49
162341†	ESR51024-010	Excel	3-32VDC	DC/AC	SPST	240VAC	10A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	14.95	13.49	11.95	10.49
162368†	ESR51024-025	Excel	3-32VDC	DC/AC	SPST	240VAC	25A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	19.95	17.95	15.95	14.49
163281*	GA5-4D40	Gordos	3-32VDC	DC/AC	SPST	240VAC	30A	4	4	Screw Terminal	UL/CSA	2.3 x 1.8 x 0.9	14.95	13.49	11.95	9.95
162405†	ESR51024-040	Excel	3-32VDC	DC/AC	SPST	240VAC	40A	4	4	Screw Terminal	UL	2.3 x 1.7 x 1.1	22.95	19.95	17.95	15.95
176719	KD20C40AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	40A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	19.95	17.95	15.95	14.49
176727	KD20C50AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	50A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	29.95	26.95	23.95	14.49
176735	KD20C75AX	Kyoto	3-32VDC	DC/AC	SPST	280VAC	75A	4	5	Screw Terminal	—	2.3 x 1.7 x 0.9	34.95	31.49	27.95	24.95
Solid State Relay DC/DC Type																
172591	KF0602D	Kyoto	3-32VDC	DC/DC	SPST	60VDC	2A	4	1	Solder Lead	—	1.4 x 0.3 x 0.9	$9.95	$8.95	$7.95	$6.95
175222	KF0604D	Kyoto	3-32VDc	DC/DC	SPST	60VDC	4A	4	1	Solder Lead	—	1.5 x 0.3 x 0.9	12.95	11.49	9.95	9.95

Time Delay Relays and Flashers

C10 Series TDR (Time Delay Relay)

- Solid state analog circuitry
- Pins: 8
- White case with top adjustable knob
- 10A resistive @ 240VAC contacts
- Delay on operation
- Initial dielectric strength: between contacts and coils – 1500Vrms
- Delay time: 0.1 to 60 seconds
- Octal style plug-in model
- Expected life at 25˚C: 10 million operations (mechanical); 100,000 operations min. at rated loads
- Size: 2.4"L x 1.7"W x 2.7"H
- Weight: 0.3 lbs.


181577

Part No.	Product No.	Contact Style	Input Voltage	Output Voltage	Time Delay (sec.)	1	10
181569	12DP.1-60C	DPDT	12VDC	250VAC/30VDC@10A	0.1 – 60	$39.95	$37.95
181577	120AP.1-60C	DPDT	120VAC	250VAC/30VDC@10A	0.1 - 60	39.95	37.95

DF Series Encapsulated Flashers

- Solid state analog flasher circuitry
- 2A load rating
- Input voltage: 24-120AC/DC
- 0.25" quick disconnect terminals
- Approximate 50% duty cycle
- Weight: 0.1 lbs.
- Temperature range: -23˚C to 60˚C (-10˚F to 140˚F)
- Size: 1.6"L x 1.1"W x .9"H


181526

Part No.	Product No.	FPM (Flash Per Minute)	Pins	Agency Approval	1	10
181534	24-120F30DF	30	2	UL, CSA	$18.95	$16.95
181526	24-120F60DF	60	2	UL, CSA	18.95	16.95

DC10 Series TDR (Time Delay Relay)

- Solid state CMOS digital circuitry
- Pins: 8
- White case with top adjustable knob
- 10A resistive @ 240VAC contacts
- Initial dielectric strength: between contacts and coil – 1500Vrms
- Delay on operation
- Octal style plug in model
- Expected life @ 25˚C: 10 million operations (mechanical); 100,000 operations min. at rated load
- Size: 2.4"L x 1.7"W x 2.7"H
- Weight: 0.3 lbs.


181551

Part No.	Product No.	Input	Output	Style	Delay Time (sec.)	1	10
181551	24DP1-60SDC	24VDC	250VAC/30VDC@10A	DPDT	1 – 60	$47.95	$42.95
181542	120AP.1-60SDC	120VAC	250VAC/30VDC@10A	DPDT	0.1 – 6	47.95	42.95

DOD Series TDR (Time Delay Relay)

- Solid state analog circuitry
- Pins: 8
- Black case with top adjustable knob
- 4A resistive@ 250VAC contacts
- Initial dielectric strength: 1500Vrms between contacts and coil
- Delay on drop-out
- Octal style plug in model
- Expected life @ 25˚C: 100 million operations (mechanical); 100,000 operations at 4A@250VAC
- Size: 2.4"L x 1.7"W x 2.7"H
- Weight: 0.3 lbs.


181518

Part No.	Product No.	Input	Output	Style	Delay Time (sec.)	1	10
181518	24D.6-60SDOD	24VDC	250VAC/48VDC@4A	DPDT	0.6 – 60	$59.95	$53.95
181500	120A.1-10SDOD	120VAC	250VAC/48VDC@4A	DPDT	0.1 – 10	59.95	53.95

C Series TDR (Time Delay Relay)

- Solid state analog circuitry
- Black plastic case with side adjustable knob
- Output voltage: 125VAC/60VDC @ 1A
- Initial dielectric strength: 500Vrms between contact and coil
- **181462:** Delay on operation; **181471:** Delay on break
- Temperature range: -25˚C to 60˚C (-13˚F to 140˚F)
- Input voltage: 12VDC
- 0.111"solder contacts
- Weight: 0.1 lbs.
- Size: 1.6"L x 1.0"W x 0.9"H


181471

Part No.	Product No.	Style	Delay Time (sec.)	Pins	Agency Approval	1	10
181462	12DNO.1-60C	SPST-NO	0.1 – 60	4	UL, CSA	$29.95	$27.95
181471	12DC.1-60C	SPST-NO	0.1 – 60	4	UL, CSA	27.95	25.95

ST1 Series Delay on Make Timers

- Solid state circuitry – no moving parts
- 2-terminal series connection to load
- Voltage drop: typically 2.5Vrms@1A
- Temperature range: -40˚C to 65˚C (-40˚F to 149˚F)
- Size: 2.2"L x 2.2"W x 0.8"H
- Delay on make
- Output: 1A continuous load
- 0.25" quick connect terminals
- Weight: 0.2 lbs.


181489

Part No.	Product No.	Input	Style	Delay Time (sec.)	Pins	Agency Approval	1	10
181497	12D1-100SST1	12VDC	SPST	1 – 100	4	UL, CSA (pending)	$23.95	$21.49
181489	120A1-100SST1	120VAC	SPST	1 – 100	4	UL, CSA (pending)	23.95	21.49

KYOTO DC/DC Solid State Relays

KG Series

- 4 pins
- Style: SPST
- Type: DC/DC
- Must turn-off voltage: 1.0VDC max.
- Input impedance: 1.5KΩ
- Minimum blocking voltage: 140VDC
- Frequency range: 47-70Hz
- Control voltage: 3-32VDC
- Contact voltage: 120VDC
- Screw terminal


176655

Part Number	Product Number	Control Voltage	Contact Voltage @ Current	Size L x W x H (ins.)	Pricing 1	10	50	100
176647	KG1005D	3-32VDC	120VDC @ 5A	2.3 x 1.7 x 0.9	$19.95	$17.95	$15.95	$13.95
176655	KG1010D	3-32VDC	120VDC @ 10A	2.3 x 1.7 x 0.9	24.95	22.49	19.95	17.95

JAMECO Relay Socket w/ Coil Diode

VF4 Series



- For use w/ P/N 148582 (pg 52)
- 12 AWG (2 black & 1 blue wire)
- 18 AWG (1 black & 1 red wire)
- Diode coil suppression
- Contact voltage: 12V
- Contact current: 20A
- 7.5" wire
- Weight: 0.1 lbs.

Part No.	Description	1	10	50
170624	Socket relay	$1.95	$1.75	$1.25

Relay Series 250 Socket

- 250VAC
- Current: 20 amps

141145: Mounts with #8 screws


141145

- Accepts #6 ring/lug terminals
- Size: 2.0"L x 1.6"W x 0.8"H
- Weight: 0.08 lbs.

141153: Mounts w/ #8 screws


141153

- Accepts #6 ring/lug terminals
- Size: 2.0"L x 1.7"W x 1.2"H
- Weight: 0.1 lbs.

Part No.	Terminals	Pins	1	10	50
141145	Screwdown	8	$2.95	$2.49	$1.95
141153	Screwdown	11	3.95	3.49	2.75

Relay Series 388 Socket



- 250VAC
- Current: 20 amps
- Mounts with #8 screws
- Size: 3.0"L x 1.4"W 1.0"H
- Accepts #6/#8 ring/lug terminals
- Weight: 0.2 lbs.

Part No.	Terminals	Pins	1	10	50
141161	Screwdown	11	$4.95	$4.49	$3.49

P&B Plastic VF4 Relay Sockets

For contacts use:


171424


171416

171424: 12-16 AWG wire
- Use P/N 173112

171416: 18-20 AWG wire
- Use P/N 173121


173788

173788: PCB Mount
- Pins Included

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Pins	1	10	50	100
171424	VCF41001	5	$.59	$.49	$.39	$.32
171416	VCF41002	5	.59	.49	.39	.32
173788	VCF41000	5	1.09	.89	.79	.69
173112	26A1349A	Pin	✳	.17	.12	.10
173121	26A1348A	Pin	✳	.17	.12	.10

Look for our cleaner more user friendly look

74LS00 Series

Part No.	Product No.	Pins
47001	74LS191	16
47010	74LS192✳	16

Limited Quantitites Available

Items marked in blue

New Products Introduced in Our Catalog

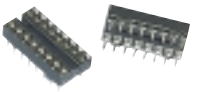
Items marked in red

Part Number	Product Number
163635	DC2405F11
174861	DCR2405F12
174879	DCR2405F52

We carry major manufacturers – call for pricing on quantities over 1000.

Solder Tail Low Profile Tin Plated IC Sockets

- Contact plating: tin
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Tin-plated tails
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Sleeve material: brass
- Lead length: .125"
- Body height: .156"
- Weight: .01 lbs.


37372


single wipe


dual wipe

Low Profile – Single Wipe – Tin Plated

- Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Product No.	Pins	Width (in.)	10	100	1000
51570	8LP★	8	0.3	$.06	$.04	$.03
37161	14LP★	14	0.3	.06	.04	.03
37372	16LP★	16	0.3	.07	.05	.035
111456	16LP33†	16	0.3	.06	.04	.02
38113	18LP★	18	0.3	.07	.05	.035
38607	20LP★	20	0.3	.10	.06	.04
39132	22LP	22	0.4	.10	.06	.03
39335	24LP★	24	0.6	.12	.07	.03
39378	24SLP	24	0.3	.15	.10	.05
40301	28LP★	28	0.6	.15	.10	.06
41110	40LP★	40	0.6	.17	.12	.08

† with 0.33 µfd decoupling capacitor

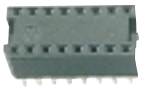
Low Profile – Dual Wipe – Tin Plated

- Prepackaged: please order in increments of 10

Part No.	Product No.	Pins	Width (in.)	10	100	1000
112192	6LPD	6	0.3	$.07	$.05	$.035
112205	8LPD★	8	0.3	.07	.05	.035
112213	14LPD★	14	0.3	.07	.05	.035
112221	16LPD★	16	0.3	.12	.07	.05
112230	18LPD	18	0.3	.12	.07	.05
112248	20LPD	20	0.3	.12	.07	.04
112264	24LPD	24	0.6	.15	.10	.04
112281	24SLPD	24	0.3	.17	.12	.05
112272	28LPD	28	0.6	.17	.12	.07
112299	28SLPD	28	0.3	.22	.17	.08
112301	32LPD	32	0.6	.17	.12	.08
112310	40LPD	40	0.6	.22	.17	.12
167396	48LPD	48	0.6	.22	.15	.12

Solder Tail Standard Gold Plated IC Sockets

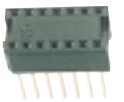
- Contact plating: gold (dual wipe)
- Material: phosphor bronze
- Voltage rating: 250Vrms
- Contact current: 1A
- Temperature range: -65°C to +125°C
- Contact resistance: 10mΩ - 30mΩ max.
- Dielectric withstanding voltage: 500Vrms
- Insulation resistance: >5000MΩ
- Insulator: glass-filled polyester, black, UL 94V-0
- Secure contact • Lead length: .125"
- Body height: . 281" • Weight: .01 lbs.


37428

Part No.	Product No.	Pins	Width (in.)	1	10	100
37209	14SG	14	0.3	$.79	$.65	$.45
37428	16SG	16	0.3	.99	.79	.59
38640	20SG	20	0.3	.99	.79	.59

Standard Wire Wrap (2 level) Gold and Tin Plated IC Sockets

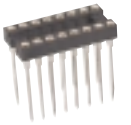
- Contact plating: gold (**WW**) or tin (**TWW**) dual wipe
- Material: beryllium copper or phosphor bronze
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Lead length: .438" • Weight: .01 lbs.
- Sleeve material: brass • Body height: .281"
- TWW = tin plated • WW = gold plated


37233

Part No.	Product No.	Pins	Width (in.)	1	10	100
51641	8WW★	8	0.3	$.89	$.75	$.55
112660	8TWW	8	0.3	.65	.55	.39
37233	14WW★	14	0.3	1.09	.89	.75
37217	14TWW★	14	0.3	.75	.65	.55
37479	16WW★	16	0.3	1.25	.99	.79
37436	16TWW★	16	0.3	.89	.75	.65
87636	18TWW	18	0.3	.99	.79	.59
38674	20WW★	20	0.3	1.49	1.25	.89
75379	20TWW	20	0.3	1.09	.89	.75
39394	24WW	24	0.6	1.85	1.59	1.25
75416	24TWW	24	0.6	1.15	.95	.69
40352	28WW	28	0.6	1.95	1.55	1.35
75424	28TWW	28	0.6	1.49	1.25	1.09
41187	40WW	40	0.6	2.75	2.25	1.95
41179	40TWW	40	0.6	1.75	1.49	1.25

Machine Tooled Wire Wrap (2 level) Gold Plated IC Sockets

- Contact plating: gold (except P/N 169148) • Tin plated leads
- Material: beryllium copper or phosphor bronze
- Contact current: 3A
- Contact resistance: < 5mΩ
- Dielectric withstanding voltage: 300Vrms • Weight: .01 lbs.
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Lead length: .438" • Body height: .125"

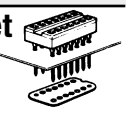

37410

TMSWW = Tin

Part No.	Product No.	Pins	Width (in.)	1	10	100
94473	8MSWW	8	0.3	$.69	$.55	$.45
62050	14MSWW	14	0.3	.99	.79	.65
37410	16MSWW	16	0.3	1.09	.89	.75
94481	18MSWW	18	0.3	1.25	.99	.79
169148	20TMSWW	20	0.3	1.09	.89	.65
38631	20MSWW	20	0.3	1.35	1.09	.89
94490	24MSWW	24	0.6	1.49	1.15	.99
105371	24SMSWW	24	0.3	1.65	1.35	.99
40336	28MSWW	28	0.6	1.75	1.49	1.15
94502	40MSWW	40	0.6	2.25	1.95	1.49

Wire Wrap Socket I.D. Markers

- Quick identification of pin numbers
- Slips onto socket before wrapping (plastic)
- Can easily write location, part number or function


37356

Part No.	Product No.	Pins	Width (in.)	1	10	100
51561	8ID	8	0.3	$.35	$.25	$.22
37145	14ID	14	0.3	.29	.22	.19
37356	16ID	16	0.3	.29	.22	.19
38105	18ID	18	0.3	.49	.39	.32
38586	20ID	20	0.3	.49	.39	.32
39327	24ID	24	0.6	.55	.45	.32
40299	28ID	28	0.6	.65	.55	.45
41101	40ID	40	0.6	.89	.75	.65

Machine Tooled Low Profile Gold Plated IC Sockets

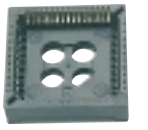
- Contact plating: gold
- Material: beryllium copper or phosphor bronze
- Tin plated leads
- Contact current: 3A
- Contact resistance: less than 5mΩ
- Multiple contact elements
- Dielectric withstanding voltage: 300Vrms
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide • Sleeve material: brass
- Lead length: .188" • Body height: .125"
- Weight: .01 lbs.


65584

Part No.	Product No.	Pins	Width (in.)	1	10	100	500
167003	6MLPT	6	0.3	$.29	$.22	$.17	$.14
51625	8MLP★	8	0.3	.29	.22	.17	.14
37196	14MLP★	14	0.3	.39	.32	.25	.22
37401	16MLP★	16	0.3	.45	.35	.29	.25
65584	18MLP★	18	0.3	.49	.39	.32	.25
38623	20MLP★	20	0.3	.55	.45	.39	.35
39351	24MLP★	24	0.6	.59	.49	.39	.35
39386	24SMLP	24	0.3	.59	.49	.45	.35
40328	28MLP★	28	0.6	.75	.65	.55	.45
114411	28SMLP	28	0.3	.75	.65	.55	.45
105380	32MLP	32	0.6	.89	.75	.55	.49
41136	40MLP★	40	0.6	.89	.75	.65	.39
42059	48MLP	48	0.6	.89	.75	.55	.39

PLCC Sockets

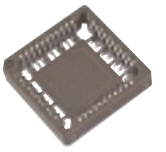
- Solder tail allows through-hole board patterns in .100" grid
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)
- Lead lgth.: .125" • Body ht.: .375"

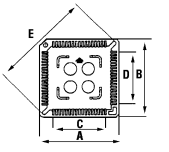

71968

Part No.	Product No.	Pins	Wt. (lbs.)	1	10	50	100
71263	G1P428	28	.02	$.39	$.32	$.25	$.19
71811	G1P432	32	.02	.99	.79	.59	.39
71618	G1P444	44	.02	.99	.79	.65	.55
72442	G1P452	52	.02	.99	.79	.65	.49
71968	G1P468	68	.02	1.15	.95	.75	.55
71976	G1P484	84	.02	1.15	.95	.75	.49

PLCC Surface Mount Sockets

- Current: 1A
- Dielectric strength: 600VAC for 1 minute
- Insulator resistance: 5000MΩ minute
- Temperature surface mount: -55°C/ +170°C (PPS)
- Weight: P/N 152688 – 0.004 lbs. P/N 152696 – 0.006 lbs.


152688



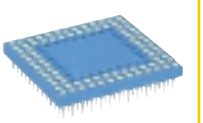
Dimensions in mm

A & B	C & D	E
23.18	12.70	28.50
30.80	20.32	40.00

Part No.	Product No.	No. Pins	1	10	50	100
152688	PLCC44D	44	$.79	$.65	$.49	$.39
152696	PLCC68D	68	.99	.79	.65	.39

88-Pin Solder Tail PGA Socket

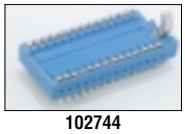
- 13 x 13 pin grid array
- Contact plating: gold
- Rated current: 1A
- Rated voltage: 100Vrms
- Contact resistance: 100mΩ max.
- Insulation resistance: 10,000MΩ max. • Color: blue
- Size: 1.4"L x 1.4"W x 0.11"T • Weight: 0.1 lbs.

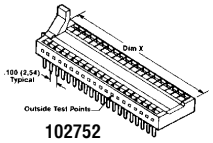


Part No.	Description	1	10	50	100
172355	88-pin socket	$1.65	$1.39	$1.15	$.99

ARIES Low Profile ZIF Sockets

Provides a low cost solution for ZIF test socket requirements. It has a height of only .319" (8.10mm), and even with the handle in open position measures just .554"(14.07mm).


102744



102752

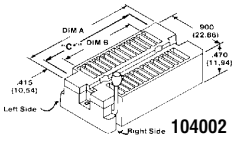
- Strong rigid cam provides uniform action over entire contact area
- Cast metal cam
- Tin plated, spring tempered beryllium copper contacts • Weight: .02 lbs.
- Test point openings provide access to all pins

Part No.	Product No.	Pins	1	10	100
102744	28-526	28	$5.25	$4.75	$3.95
102752	40-526	40	6.25	5.75	4.95

ARIES Universal ZIF Sockets


103991

- UL94V-0 rated body
- 1000MΩ insulation resistance
- 25,000 to 50,000 contact cycles
- Accepts .300" to .600" IC centers x .1" spacing
- Solder directly to PCB or plug directly into IC socket
- Screw mounting holes for reliable operation



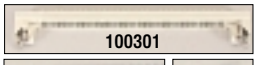
104002

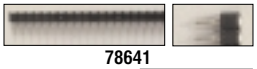
• Weight: 0.1 lbs.

Part No.	Product No.	Pins	1	10	100
103991	24-6554-10	24	$6.95	$6.25	$5.75
104002	28-6554-10	28	8.25	7.49	6.75
104011	32-6554-10	32	9.25	8.25	7.49
104029	40-6554-10	40	10.95	9.95	8.95

SIMM and SIPP Sockets

- Locking tabs
- Tinned contacts
- Memory module sockets
- Keyed mounting posts
- Weight: .02 lbs.


100301


78641


104053

Part No.	Description	1	10	100
100301	Single x 30-pin, vert. SIMM	$.79	$.65	$.49
72426	Single x 72-pin vert. SIMM	.65	.45	.35
101282★	Single x 20-pin SIPP	.69	.55	.39
78641	Single x 30-pin SIPP	.79	.65	.49
104053	Single x 30-pin SIPP (wire wrap)	1.95	1.75	1.49
175919	Single x 36-pin SIPP	.99	.79	.69

Card-Edge Connectors

- Fit all PC boards
- .054" to .070" thick
- Weight: .05 lbs.


40694

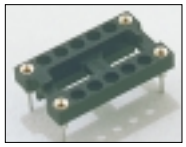
Solder Eyelet .140" Spacing Between Rows

Part No.	Position	Contacts	Contact Centers	Mount. Ears	1	10	100
39116	22/44	Gold	.156	Yes	$1.95	$1.75	$1.35

Solder Tail .200" Spacing Between Rows

40694	31/62	Tin (PC/AT)	.100	No	$.99	$.75	$.49
164013	32/64	Tin	.100	No	.49	.35	.25
42091	49/98	Tin (AT)	.100	No	.89	.59	.39

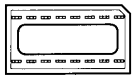
14-Pin Crystal Oscillator Socket

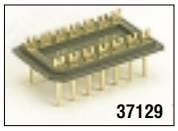


- Low profile solder tail
- For full-can oscillators (pg 24)
- 14-pin style, but with only the 4 corner pins (machine tooled); they can be PCB mounted without the modifications that would be needed with DIP-IC sockets
- Good for prototyping and PCB mounting

Part No.	Description	1	10	100	1000
133006	Oscillator socket	$.59	$.45	$.39	$.35

.100" DIP Header Plugs

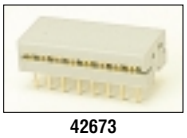



37129

- Gold-plated leads **(*134922 is tin plated)**
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: .188"
- 0.1" spacing between leads

Part No.	Product No.	Width (in.)	Pins	1	10	100
104336	8HP	0.3	8	$.69	$.59	$.49
134922	14THP*	0.3	14	.59	.49	.35
37129	14HP	0.3	14	.79	.65	.55
37330	16HP	0.3	16	.89	.79	.69
38578	20HP	0.3	20	.99	.89	.79

.100" IDC DIP Flat Cable Plugs

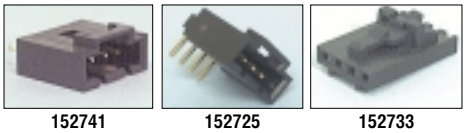

42673

- Mates with standard 14, 16, 18, 20, 24, 28 & 40-pin DIP sockets with 0.1" spacing
- Gold-plated contacts
- Uses 28 AWG flat ribbon cable (pg 63) • Plastic
- Current rating: 1 amp • Weight: .01 lbs.

Part No.	Product No.	Width	Contacts	1	10	100	500
42657	609-14	0.3"	14	$.39	$.29	$.21	$.19
42673	609-16	0.3"	16	.45	.35	.27	.25
104096	609-20	0.3"	20	.49	.39	.35	.25
42690	609-24	0.6"	24	.69	.55	.35	.32
175927	IDCPCB26	0.2"	26	.59	.49	.39	.35
99670	609-28	0.6"	28	.69	.59	.49	.39
42711	609-40	0.6"	40	.79	.69	.55	.49

.100" Low Profile Keyed Shrouded Headers and Connector

CD-ROM Headers and Connector


152741 152725 152733


181753

- Voltage rating: 250V AC/DC
- Current rating: 3A AC/DC
- Withstanding voltage: 1000V AC/minute
- Insulation resistance: 1000MΩ min.
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Pin material: tin plate brass • Contacts: 4
- Recommended crimp tool P/N 99442 (pg 124)
- P/N 152733 requires 4 pins (P/N 181673)

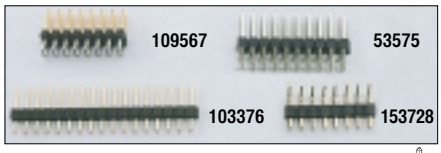
✳ **Prepackaged: please order in increments of 10**

Part No.	Description	1	10	100	1000
152741	Straight header (4-pin)	$.35	$.29	$.19	$.12
181753	Straight header (5-pin)	.45	.35	.29	.15
152725	Right angle header	.45	.35	.29	.15
152733	Single w/latch	.29	.25	.19	.15
181673	Female pins ✳	.10	.06	.04	

.100" Male Headers (Gold)

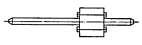
- Snap apart to fit your application
- Solder to PC boards for instant plug-in access via shorting blocks (right) • Current rating: 1 amp
- Contact material: phosphor bronze • Contact area: gold
- Temperature range: -55°C to +120°C
- Insulation material: glass filled polyester
- .025" square posts on a .100" x .100" matrix
- Use with crimp connector housing (right)
- Weight: .01 lbs.

✳ **Prepackaged: please order in increments of 10, 100 or 1000**



.100" Straight Male Headers

Single Row

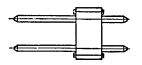



109575

Part No.	Product No.	Contacts	1	10	100	1000
108337	SMH02	2✳	$.10	$.06	$.04	
109575	SMH03	3✳	.10	.06	.04	
117559	SMH04	4✳	.10	.06	.04	
153699	SMH06	6✳	.10	.06	.04	
153701	SMH08	8✳	.12	.08	.05	
103392	SMH10	10✳	.12	.08	.05	
103376	SMH17	17✳	.17	.10	.07	
103368	SMH20	20✳	.17	.12	.07	
103350	SMH25	25✳	.19	.15	.07	
103341	SMH30	30	.29	.22	.17	.10
68339	SMH36	36	.35	.29	.22	.17
160881	SMH40	40	.39	.32	.25	.17

.100" Straight Male Headers

Double Row

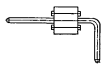


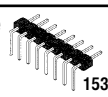

67820

Part No.	Product No.	Contacts	1	10	100	1000
115027	923804R	4✳	$.10	$.06	$.04	
115035	923806R	6✳	.15	.10	.05	
109516	923808R	8✳	.15	.10	.04	
67820	923810R	10✳	.17	.12	.08	
118455	923714R	14	.29	.22	.17	.10
109567	923816R	16	.29	.22	.17	.10
53479	923862R	20	.32	.25	.19	.12
53495	923863R	26	.35	.29	.22	.12
53516	923864R	34	.35	.29	.22	.17
53532	923865R	40	.39	.32	.25	.17
53559	923866R	50	.39	.32	.25	.15
68574	923860R	60	.39	.32	.22	.15
103405	923772R	72	.49	.39	.32	.19
117196	923780	80	.65	.55	.45	.25

.100" Right Angle Male Headers

Single Row

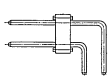


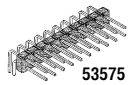

153728

Part No.	Product No.	Contacts	1	10	100	1000
153728	RMH08	8	$.29	$.22	$.17	$.12
103270	RMH36	36	.55	.45	.35	.22

.100" Right Angle Male Headers

Double Row

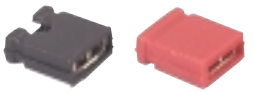



53575

Part No.	Product No.	Contacts	1	10	100	1000
53575	923872R	20	$.45	$.35	$.29	$.17
53583	923873R	26	.49	.39	.25	.15
53604	923875R	40	.55	.45	.32	.22
53612	923876R	50	.55	.45	.32	.25
167257	923672RT (Tin)	72	.49	.39	.29	.19
103413	923672R	72	.75	.59	.49	.35
139563	923680R	80	.85	.69	.59	.39

We carry major manufacturers – call for large OEM pricing.

.100" and 2mm Shorting Blocks
Mate with Male Headers (left)


22023 (open) 112432 (closed)

- Pin material: phosphor bronze
- Shorting socket jumper to address or code strip line plugs (male header, left below)
- Mates to .025" square posts on .100" centers
- 22023 is open on top to allow for a test point while 19140 is closed – functionally they are the same
- 119263: 2mm shorting block (for disk drives)

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
22023	Top open, black★ ✳	$.10	$.06	$.04	
119263	Top open, black (2mm) ✳	.15	.10	.05	
112424	Top open, blue ✳	.10	.06	.03	
112416	Top open, red ✳	.10	.06	.04	
19140	Top closed, black★ ✳	.10	.06	.04	
112441	Top closed, blue ✳	.10	.06	.03	
112432	Top closed, red ✳	.12	.08	.04	

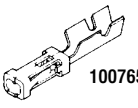
.100" Non-Polarized Connector Housings and Crimp Pins

- Mates with .025" square post on pattern of .100" centers (male headers, see left)
- Current rating: 1A • Pin material: tin plated brass
- Pin wire gauge: 26-22 AWG • Plastic • Wt.: .004 lbs.
- Temperature rating: -55°C to +105°C
- **Use 159265 pin crimper (pg 124) for 100765 pins**

✳ Prepackaged: please order in increments of 10, 100 or 1000

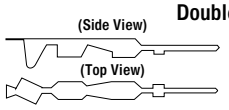
Single Row


103190

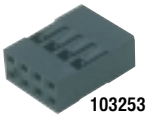

100765

Part No.	Product No.	Contacts	1	10	100	1000
100811	SCH2	2 ✳	$.15	$.10	$.06	
157382	SCH3	3 ✳	.15	.10	.06	
100802	SCH4	4 ✳	.19	.12	.06	
163686	SCH5	5 ✳	.19	.12	.08	
103211	SCH6	6 ✳	.19	.12	.06	
103202	SCH8	8 ✳	.19	.12	.06	
103190	SCH10	10 ✳	.19	.12	.09	
157391	SCH17	17 ✳	.19	.12	.09	
103181	SCH20	20 .29	.22	.13	.09	
157411	SCH30	30 ✳	.25	.15	.12	
103157	SCH36	36 .39	.29	.19	.15	
100765	FCH1	Female pin ✳	.10	.06	.04	
145357	MCH1	Male pin ✳	.12	.08	.05	

Double Row



145357


103253

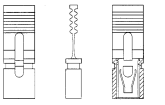
Part No.	Product No.	Contacts	1	10	100	1000
103253	DCH8	8 .29	$.22	$.15	$.07	
157420	DCH10	10 .32	.25	.19	.10	
157438	DCH14	14 .32	.25	.15	.10	
103237	DCH16	16 .35	.29	.19	.10	
103229	DCH20	20 .35	.29	.17	.12	
157446	DCH26	26 ✳	.12	.10	.08	
157454	DCH34	34 ✳	.15	.12	.09	
157462	DCH40	40 ✳	.25	.15	.12	
157471	DCH50	50 .49	.39	.29	.25	
100765	FCH1	Female pin ✳	.10	.06	.04	
145357	MCH1	Male pin ✳	.12	.08	.05	

.100" Shorting Block w/ Handle
Mates with .100" Male Headers



Ratings:• Current: 3A
- Accessible test point in handle
- Contact resistance: 20mΩ max.
- Insulator resistance: 100MΩ max.
- Dielectric strength: AC 650V RMS for 1 min.

Material:
- Plastic: PBT, glass filled
- Contact: phosphor bronze • Color: black



✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
152670	Shorting block w/handle ✳	$.15	$.12	$.07	

.100" and 2mm IDC Socket Connectors
Double Row


32563

- Mates with 2 rows of .025"Sq. or Dia. posts on patterns of .100" centers (male headers, see left & pg 56)
- (100386): 2mm pin spacing • Current rating: 1A
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C • Weight: .02 lbs.
- Use P/N 73251 (pg 59), insulation displacement connection crimper for these connectors

Polarized IDC Socket Connectors

Part No.	Product No.	Contacts	1	10	100	1000
32491	S10★	10	$.29	$.22	$.17	$.12
153947	S14	14	.32	.25	.19	.12
119466	S16	16	.32	.25	.19	.15
32521	S20★	20	.35	.29	.22	.15
32563	S26★	26	.45	.35	.29	.17
32643	S34★	34	.45	.35	.29	.17
32678	S40★	40	.55	.45	.35	.19
100386	IDC440	44(2mm)	1.19	.99	.85	.69
32707	S50★	50	.65	.55	.45	.29
32758	S60	60	.75	.59	.39	.35
180929	S64	64	.85	.75	.65	.59

Non-Polarized IDC Socket Connectors

Part No.	Product No.	Contacts	1	10	100	1000
138376	SN10	10	$.29	$.22	$.17	$.12
138325	SN20	20	.35	.29	.17	.12
138333	SN26	26	.39	.29	.19	.13
138341	SN34	34	.39	.29	.22	.15
138350	SN40	40	.45	.35	.29	.19
138368	SN50	50	.55	.45	.29	.22

.100" Low-Profile Male Shrouded Headers


68620


68179

Straight and Right Angle
- Features: UL recognized, CSA certified; .025" square post mates with sockets on .100" x .100" grid
- Contact: phosphor bronze, gold-plated
- Housing material: glass filled polyester, gray, UL94V-0
- Use with IDC socket connectors (above)

Part No.	Description	1	10	100	1000
67811	10-pin	$.29	$.22	$.17	$.12
68179	16-pin	.32	.25	.19	.12
68291	20-pin	.35	.29	.22	.17
68371	26-pin	.45	.35	.29	.17
68582	34-pin	.45	.35	.25	.17
68620	34-pin (rt. angle)	.45	.35	.25	.17
181104	40-pin	.45	.35	.29	.19
68662	40-pin (rt. angle)	.45	.35	.29	.17

.100" IDC Plug Connectors
Double Row

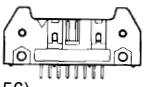

29217

- Current rating: 1A
- .100" x .100" grid
- Shrouded header w/o mounting ears
- Contact: gold-plated phosphor bronze • Plastic
- Use with IDC socket for connectors (above)

Part No.	Product No.	Contacts	1	10	100
29170	P34	34	$.99	$.69	$.59
29188	P40	40	1.75	1.49	.99
29217	P50	50	1.95	1.75	1.25

.100" (2.5mm) Straight Male Headers
w/ Standard Latch

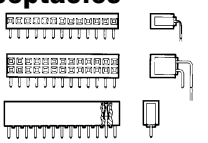




Double Row
- Used with .156 housing (below)
- 0.1" contact center • Keying slot
- Mount vertical • Weight: .02 lbs.
- Use with IDC socket connectors (pg 56)

Part No.	Description	1	10	100	500
117663	10-pin	$.45	$.35	$.29	$.17
71829	20-pin	.49	.39	.32	.19
71933	26-pin	.55	.45	.35	.22
72215	50-pin	.75	.59	.45	.32
167409	60-pin	.65	.49	.39	.29

.100" (2.5mm) Female Header Receptacles



- Gold plated contacts • 0.1" contact center

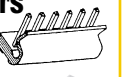
Right-Angle Mount (Side Entry) – A

Part No.	Contacts	Type	1	10	100	500
70746	8	single row	$.49	$.35	$.25	$.19
71159	20	double row	.99	.79	.59	.49

Vertical Mount (Top Entry) – B

Part No.	Contacts	Type	1	10	100	500
70754	8	single row	$.29	$.25	$.19	$.12
70720	16	double row	.59	.49	.39	.29
70826	20	double row	.69	.59	.49	.39
105056	30	double row	.79	.69	.59	.45
163862	34	double row	.79	.69	.49	.45
111704	40	double row (Tin)	.99	.89	.75	.59

.156" (3.9mm) Center Straight-Friction Lock Headers



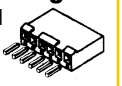

104811

- Ideal for AC and DC power distribution
- Voltage rating: 250VAC/VDC max.
- Current rating: 7 amps AC/DC
- Contact resistance: 20mΩ
- Temperature range: -25°C to +85°C
- Header material: pin - tin plated brass
- Base: nylon 66, UL94V-2 • Wt.: .01 lbs.

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Product No.	Pins	1	10	100	1000
104791	LMH4	4 ✳	$.15	$.12	$.07	
104803	LMH5	5 ✳	.19	.12	.09	
104811	LMH6	6 .29	.22	.17	.12	
104838	LMH8	8 .32	.25	.19	.13	
104846	LMH10	10 .35	.25	.19	.14	

.156" (3.9mm) Center Housings



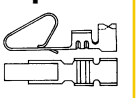

104731

- Common to many power supplies carried by Jameco. Some power supplies (pgs 90-97) may require multiple connectors
- Housing material: nylon 66, UL94V-2
- Use with crimp pins (P/N 78318 – below)

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Product No.	Pins	10	100	1000
176743	LCH2	2 ✳	$.12	$.08	$.04
104432	LCH3	3 ✳	.12	.08	.04
104715	LCH4	4 ✳	.15	.12	.05
104723	LCH5	5 ✳	.15	.12	.05
104731	LCH6	6 ✳	.19	.15	.08
104766	LCH10	10 ✳	.19	.15	.08

.156" (3.9mm) Center Crimp Pin



- Use with .156 housings (above)
- Use 99442 crimping tool (pg 124)
- Material: tin plated brass
- Pin wire gauge: 22-26 AWG

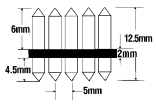
✳ Prepackaged: please order in increments of 10, 100, 1000

Part No.	Product No.	Description	10	100	1000
78318	AMP501T	Crimp pin ✳	$.10	$.06	$.04

.197" (5mm) Male Header



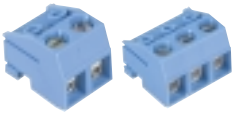
- Rated voltage: 300V • Rated current: 10A
- Contact pins: 24 • Spacing: .197"
- 0.05" round posts • Color: black
- Snap apart to fit your application
- Insulating material: polyamide
- Contact pin: tin plated brass
- Use with P/N 164793 & 164806 (below)



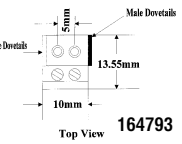
Part No.	Product No.	1	10	100
164814	TBH24	$1.49	$1.25	$.99

.197" (5mm) Terminal Blocks Plugs

- Materials: cage clamp/ terminal/ pin header – tin plated brass; wire protector – phosphor bronze; insulator body – polyamide
- Screw size: M2.6
- Rated current: 10A; 300VAC
- Insulation resistance: >500MΩ @ 500VDC
- PCB hole diameter: 1.8mm
- Wire range: 14-24 AWG
- Use with P/N 164814 (above)



164793 164806



164793

Part No.	Terminal	Block Lgth	1	10	100	1000
164793	2	.395"	$.55	$.45	$.29	$.25
164806	3	.615"	.79	.65	.45	.35

DINKLE .197" (5mm) Terminal Blocks

- Materials: housing: polyimide; solder: tin plated brass; wire protector: phosphor bronze / nickel plated; screw: steel tin plated
- Lead spacing: 0.197" • Wire range: 12-24 AWG
- Contact rating: 300V @ 10A • PC mount
- Insulation resistance: 500MΩ or more @ 500V
- Insulation withstanding voltage: 2000VAC min.
- Modular housing: end to end stackability
- Terminals interlocking with same series

DT Series

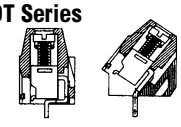


Fig. 1 Fig. 2 99397 99434

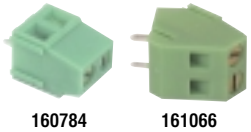
DT128 Type (Side Entry)

Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
99426	1	2	0.4"	$.59	$.49	$.39	$.32
99397	1	3	0.6"	.69	.59	.49	.39

DT103 Type (45° Entry)

99389	2	2	0.4"	$.59	$.49	$.39	$.29
99434	2	3	0.6"	.69	.59	.49	.35

EK500 Series



160784 161066

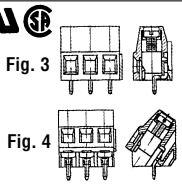


Fig. 3 Fig. 4

EK500V Type (Side Entry)

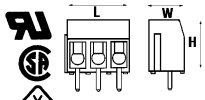
Part No.	Fig.	Term.	Block Lgth	1	10	100	1000
160784	3	2	0.4"	$.59	$.49	$.39	$.29
160792	3	3	0.6"	.69	.59	.45	.35

EK500A Type (45° Entry)

161066	4	2	0.4	$.45	$.35	$.29	$.25
161058	4	3	0.6	.55	.45	.35	.29

OST .200" (5.08mm) Vertical Terminal Blocks

Side Entry





152346

- Rated voltage (UL): 250V
- Rated current: 15A
- Wire size: 14-22 AWG
- PCB hole diameter: 0.05"
- Spacing: 0.200" • Color: blue
- Insulating material: polyamide
- Terminal block: copper zinc • Wire guard: copper nickel

Part No.	Term.	LxWxH (in.)	1	10	100	1000
152346	2	.421 x .351 x .490	$.49	$.39	$.32	$.25
152354	3	.623 x .351 x .486	.65	.55	.45	.39

IDC Wire Connectors

- Connects two to three wire ends or splices one line and one lead
- Insulated snap cover for a secure splice



140716

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Color	Gauge (AWG)	10	100	1000
140724	Blue	18-14 ✳	$.11	$.07	$.05
140716	Red	22-18 ✳	.11	.07	.05

JAMECO Telecom Splice Connectors

- Provides clean, solid, and rapid connection of wires to keep communication lines free of noise
- Available to handle a wide range of conductor sizes



169746 169754 169738

169754: Y-Type connector **169738:** T-Type connector

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Color	Wire Gauge	No. of Conductors	10	100	1000
169746	Yellow	22–26	2 ✳	$.15	$.12	$.09
169754	Red	19–26	3 ✳	.19	.15	.12
169738	Blue	24–26	3 ✳	.25	.19	.13

USB-A & B Connectors and Pin



159716 USB-A



174060 USB-B

159724



174051 USB-B



161023 USB-A

- Insulation resistance: 1000MΩ (min)
- Voltage current rating: 1A @ 30VAC
- Dielectric with standing voltage: 750VAC

159716/174060: USB Male Connector

- 3 part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724) required per USB connector
- Housing is easily snapped together

161023/174051: USB Female Connector

- PC mount right angle w/ board locks

159724: Male Crimp Pin

- Pin for P/N 159716 (4 required) • Contact brass
- Use P/N 159265 for crimping tool (pg 124)

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	1	10	100	1000
159716	USB-A connector (M)	$.55	$.45	$.29	$.25
161023	USB-A connector (F)	.59	.49	.39	.29
174060	USB-B connector (M)	.69	.59	.49	.35
174051	USB-B connector (F)	.55	.45	.32	.25
159724	Crimp pin for 159716 ✳	.10	.06	.04	

JAMECO Power Connectors & Pins

Connector & Housing Specifications:

- Housing material: white nylon 6/6 UL94V-2
- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:

- Material: tin plated brass • Current rating: 1.5 amps
- Wire size range: 24-18 AWG
- Use crimp tool P/N 99442 (pg 124)

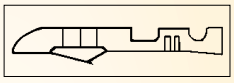
Power Connectors and Pins for 3.5" Disk Drives and Power Supplies



114930



114999



114921

✳ **10 piece minimum**

Part No.	Product No.	Description	10	100	1000
114930	171822	4-pin F housing ✳	$.19	$.15	$.08
114921	170262	F crimp pin for 114930 ✳	.10	.06	.04

Part No.	Product No.	Description	1	100	1000
114999	171826	4-pin M right angle PCB mounting	.35	.29	.15

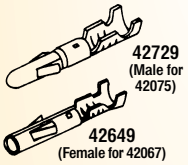
Power Connectors and Pins for 5.25" Disk Drives and Power Supplies

42075 & 42067 Connector Housings:

- Keyed mating connectors
- External key bar indicates pin 1



42075 (Male) 42067(Female)





109145 117567

Part No.	Product No.	Description	1	100	1000
109145	109145	4-pin M vertical PCB mounting	$.49	$.39	$.25
117567	175305	4-pin M PCB mounting, horizontal edge mount	.59	.49	.29

✳ **10 piece minimum**

Part No.	Product No.	Description	10	100	1000
42075	480426	4-pin M housing ✳	.25	.19	.12
42067	480424	4-pin F housing ✳	.25	.19	.12
42729	61118	M crimp pin for 42075 ✳	.10	.06	.04
42649	60619	F crimp pin for 42067 ✳	.10	.06	.04

Extraction Tools for Above Crimp Pins

- Quickly and easily extract .093" locking pins from interlocking connectors
- Heavy duty metal construction
- Includes directions • Precision design
- Length: 5" • Weight: 0.1 lbs.



131887

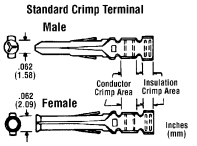
Part No.	Product No.	Description	1	10
131887	HT319C	Male tool for 42729	$8.95	$7.49
131879	HT319B	Female tool for 42649	8.95	7.49

molex .062" Power Connector Kit

This assortment kit contains mating sets of housings and pins. Kit includes male and female tin plated standard brass .008" pins; 18-24 AWG crimp size wire.

- Housing: nylon, UL94V-2
- Voltage: 250VAC • Current: 5A
- Temperature range: -40˚C to +105˚C
- Weight: .03 lbs.



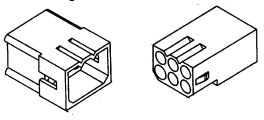


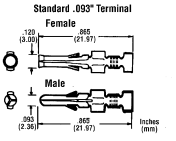
Part No.	Description	1	10	50
142113	(1625-2) 2-pin plugs (3) & receptacles (3), female (8) & male (8) terminals	$5.95	$5.35	$4.79
142156	(W-HT-2285) Extraction tool	12.95	10.95	9.95

molex .093" Power Connector Kits

These assortment kits contain mating sets of housings and pins. All kits include male and female tin plated standard brass .010" pins; 18-22 AWG crimp size wire.

- Housing: nylon, UL94V-2 • Voltage: 250VAC
- Current: 12A (P/N 142181); 9A (P/Ns 142201/142228)
- Temperature range: -40˚C to +105˚C
- Weight: .05 lbs.





Part No.	Description	1	10	50
142181	(1545) 2-pin plugs (3) & receptacles (3), female (8) & male (8) terminals	$4.95	$4.49	$3.95
142201	(1490) 4-pin plugs (2) & receptacles (2), female (10) & male (10) terminals	4.95	4.49	3.95
142228	(1261) 6-pin plugs (2) & receptacles (2), female (14) & male (14) terminals	4.95	4.49	3.95
142236	(W-HT-2038) Extraction tool	12.95	11.49	10.49

.156" Male Header Kit (100 Pcs.)

With Locking Strip



- Voltage rating: 250V AC/DC
- 0.045" post diameter
- Current rating: 7A AC/DC
- Insulation resistance: 1000MΩ min.
- Temperature range: -25˚C to 85˚C
- Header material: tin-plated brass (pin); nylon (base)
- Compatible with 0.156" housing connectors (LRCHK kit below)

Contacts
5
6
7
8
9
10

Part No.	Prod. No.	Description	1	10
172857	LRMHK	.156" male header	$7.95	$6.95

.156" Housing Connector Kit

With Locking Clip



- 100 piece/package
- Housing material: nylon
- For use with 0.156" lock headers (LRMHK kit above)
- Use crimp pin P/N 154093 (below)

Contacts
4
5
6
7
8
9
10

Part No.	Prod. No.	Description	1	10
172865	LRCHK	.156" housing (100 pcs)	$8.95	$7.95

JAMECO .156" Female Crimp Pins

For P/N 172865 (Above)

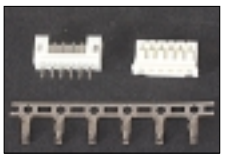


- Use with LRCHK .156" kit housing connectors (above)
- Use 99442 crimping tool (below left)
- Material: tin plated brass • Pin wire gauge: 18-22 AWG

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Description	10	100	1000
154093	LRPIN	Crimp pins....✳	$.15	$.09	$.06

100 Piece .078" (1.9mm) Assorted Headers, Housings and Pin Kit



- Voltage rating: 250V AC/DC
- Current rating: 2A AC/DC
- Temperature range: -20˚C to +85˚C
- Insulation resistance: 1000MΩ min.
- Material (base): nylon 66
- Material (post): brass, tin plated
- Applicable PC board thickness: 0.031" to 0.063" (0.8 to 1.6mm)
- Pin wire guage: 22-28 AWG
- Pin material: phos. bronze
- Use 99442 crimper for pins (pg 124)

152493: Crimp pins sold in packs of 100 pieces

Kit Includes:

Vertical Contact	Qty
3	Asst
5	100
6	ea.
Pins	100 ea.

Part No.	Prod. No.	Description	1	10
172873	SVHCHK	.078" header housing kit	$7.95	$6.95

Part No.	Prod. No.	Description	100	1000
152493	FCH2	Female crimp pin (100 pcs)	.0495	.0449

Centronics Parallel Interface Connectors



180072 180064 180056

Metal Body and Shell, Solder Type Contacts

- Compatible w/ industry standard
- Solder eyelets accept 24 AWG wire (pg 63) • Weight: .01 lbs.



42382

Male Cable Plugs

- Complete with cable boot, shell & hardware

Female Cable Receptacle

- Can be used as panel mount
- Complete with spring latches and cable boot



180937

180937: Right angle strain relief

Part No.	Product No.	Description	1	10	50
180072	57-30140	14-contact male	$1.49	$1.25	$.99
180064	56-30140	14-contact female	1.49	1.25	.99
180056	57-30240	24-contact female	1.49	1.25	.99
42382	57-30360	36-contact male	1.49	1.25	.85
42403	57-60360	36-contact female	1.49	1.25	.99
72012	5703-50	50-contact male	1.75	1.49	1.09
180937	57-30500R	50-contact male	1.95	1.75	1.59
71714	5704-50	50-contact female	2.49	2.25	1.75

ATX Power Connectors for Motherboards and Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25˚C to 85˚C
- Insulation resistance: 1000MΩ minimum • Withstanding voltage: 1500V/min.

147379: ATX male 20-pin edge mount connector

- Material: nylon 66, UL-94VO
- Material of post: brass tin plated • Diameter of post: .045"

147387: Housing connector

- Material: nylon 66, UL-94VO

147395: ATX power terminal pins

- Material: brass tin plated



147379 147395 147387

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	L	W	H	Dia	Use With	1	100	1000
147379	20-pin male connector	1.7"	0.4"	0.6"	—	—	$.45	$.35	$.22
147387	20-pin housing connector	1.7"	0.4"	0.8"	—	147395	.35	.29	.17
147395	Power terminal pin, female	.59"	—	—	.068"	147387	✳ .10	.06	.04

Standard Power Connectors for Motherboards and Power Supplies

- Voltage rating: 250V AC/DC • Current rating: 7A AC/DC • Temperature range: -25˚C to 85˚C
- Insulation resistance: 1000MΩ minimum • Withstanding voltage: 1500V/min.

78300: AMP60G male 6-pin PCB mount connector

- Material of post: brass/ tin plated • Diameter of post: .09"

78326: AMP50G female 6-pin housing connector

- Material: nylon

78318: AMP501T terminal pin

- Material: brass/ tin plated



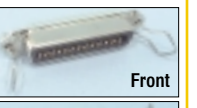
✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	L	W	H	Dia	Use With	1	100	1000
78300	6-pin male connector	.93"	.37"	.57"	—	—	$.35	$.29	$.15
78326	6-pin housing connector	.94"	.25"	.74"	—	78300	.25	.19	.10
78318	Power terminal pin, female	.69"	—	—	.09"	78326	✳ .10	.06	.04

36-Pin Female Centronics Connector

Vertical PC Mounting

Amphenol 57-20360-9





- Board mount
- Current rating: 1A
- Voltage rating: 250AC RMS
- Insulation resistance: 1000MΩ min. @ 500VDC
- Contact area plating: gold over nickel
- Contact material: copper alloy • Spring latches
- Solder type contacts • Weight: 0.03 lbs.

Part No.	Description	1	10	100
159708	36 contact female	$.99	$.79	$.55

PCB Right Angle Centronics Interface Connectors



72151



72080

- Solder-type contacts • Metal body
- Space between rows: .164" • PC mount
- Space between pins: 0.1" • Weight: 0.06 lbs.

Part No.	Description	1	10	100
72151	36-contact female	$1.49	$1.25	$.99
72080	50-contact female	1.75	1.49	1.09

50-pin Half Pitch IDC SCSI-II Connectors

Crimp two ribbon cables (P/N 37760, pg 63) and create your own cable.



139361

- Weight: .02 lbs.

139352: HDB50P 50-pin high density D-sub male
139361: HDB50S 50-pin high density D-sub female

Part No.	Description	1	10	50
139352	50-pin male SCSI-II	$1.95	$1.75	$1.49
139361	50-pin female SCSI-II	2.95	2.49	2.09

68-pin Half Pitch SCSI-III Connectors

Crimp two ribbon cables (P/N 37840, pg 63) and create your own assembled SCSI-III 68-pin cable. • Weight: .03 lbs.



139070

139061: HDB68P 68-pin high density D-sub male
139070: HDB68S 68-pin high density D-sub female

Part No.	Description	1	10	50
139061	68-pin male SCSI-III	$3.75	$2.75	$2.49
139070	68-pin female SCSI-III	4.25	3.75	3.25

IDC Centronics Connector

- Contact material: gold plated phosphor bronze
- Current rating: 1 amp
- Use 73251 IDC crimping tool (right)
- Temp. rating: -55°C to +105°C
- Plastic
- Weight: .04 lbs.



13848



180902

Part No.	Product No.	Contacts	Type	1	10	100
13848	CEN36M	36	male	$1.75	$1.49	$1.09
13821	CEN36F	36	female	1.49	1.25	.99
180902	CEN50F	50	female	3.95	3.49	2.95

IDC Bench Press and Accessories

Designed for low to medium volume mass termination of various IDC connectors on flat ribbon cable.



27203

27182

27174

- Includes assembly base and standard platen
- Size: 10.0"W x 8.8"D x 9.0"H

Part Number	Product Number	Description	Wt. (lbs.)	1	10
27174	M505	IDC bench press	7.0	$164.95	$149.95

M505 Accessories

27182	M507	Flat ribbon cable cutter	0.9	$64.95	$59.95
27203	M510	Connector base plate	0.5	29.95	26.95

IDC Crimping Tool

- Crimp insulation displacement connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Size: 9.2"L x 3.0"W
- Weight: 1.1 lbs.
- Use for IDC socket connectors (pg 56)



Part No.	Product No.	1	10	25
73251	HT214 ★	$11.95	$10.95	$9.95

Standard and Mini DIN Plugs (M) and Receptacles (F)



177236



15886

w/ Strain Relief

- Solder barrels
- See page 63 for cable
- Weight: .02 lbs.

Part No.	Product No.	Pins	Type	1	10	100
142279	4MDP	4	Mini	$.75	$.59	$.49
142261	6MDP	6	Mini	.75	.59	.49
177244	6MDR	6	Mini	.89	.79	.69
111878	8MDP	8	Mini	.79	.65	.49
177236	8MDR	8	Mini	.89	.79	.69
15878	DINP5	5	Standard	.39	.32	.25
180873	DINS5	5	Standard	.49	.39	.29
15886	DINP6	6	Standard	.49	.39	.29
15894	DINP8	8	Standard	.59	.49	.39
180865	DIN8S	8	Standard	.69	.55	.45

Standard Female Sockets

- Metal body
- Panel mount
- Solder lugs
- Weight: .01 lbs.



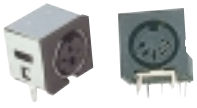
15851

Part No.	Product No.	Socket	Type	1	10	100
15843	DINJ5	5	Standard	$.55	$.45	$.35
15851	DINJ6	6	Standard	.75	.59	.39
15860	DINJ8	8	Standard	.79	.65	.49

Standard Right Angle DIN Female Sockets

- Set back: 0.5"
- PC mount contacts
- Weight: .01 lbs.

155061: Plastic/metal body
140791/29399/119474: • Plastic body



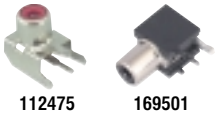
155061 29399

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Socket	1	10	100
155061	MDJ0013P	3 (mini) shielded ✳		$.10	$.07
140791	MDR4S	4 (mini)	.49	.39	.25
119474	MDR6S	6 (mini)	.69	.59	.45
29399	RD5	5	.49	.39	.25

JAMECO RCA Jacks

- Standard RCA jacks for audio and video signals
- See page 173 for RCA cables
- **112475/169501:**
- Right angle
- **159484/172339:**
- Panel mount



112475 169501



159484 172339

Part No.	W x D x H (ins.)	1	10	100	1000
112475	.42 x .57 x .48	$.39	$.29	$.25	$.12
169501	.40 x .85 x .50	.29	.22	.15	.12
159484	.84 x .38 Black	.49	.39	.32	.19
172339	.84 x .38 Red	.39	.32	.25	.19

Terminal Wire Crimping Tool

- Crimps solderless terminals: 22-18 AWG red, 16-14 AWG blue and 12-10 AWG yellow
- Size: 9.0"L x 2.0"W
- Weight: 0.8 lbs.



Part No.	Product No.	1	10	25
72995	HT303	$14.95	$13.49	$11.95

Insulated Solderless Terminals

- Insulation thickness: .030"
- Funnel ramp entry
- Temperature to 105°C
- Use with Jameco crimping tool 72995 (below)



103683



103587



106921

- **Prepackaged: please order in increments of 10, 100 or 1000**

Ring Solderless Terminals (Insulated)



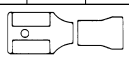
Part Number	Color	Wire Gauge AWG	Stud Size	Pricing 10	100	1000
103683	Red	22-16	#6	$.08	$.05	$.035

Spade Solderless Terminals (Insulated)



Part Number	Color	Wire Gauge AWG	Stud Size	Pricing 10	100	1000
103587	Red	22-16	#6	$.10	$.06	$.04
103595	Blue	16-14	#8	.10	.06	.035

Disconnect Solderless Terminals (Insulated)



† 109111 includes hood

Part Number	Description	Color	Wire Gauge	Blade Width	Pricing 10	100	1000
106921	Female	Red	22-16	.187"	$.12	$.07	$.04
103667	Female	Red	22-16	.25"	.12	.07	.04
109111†	Female	Red	22-16	.25"	.14	.09	.045

171 Pc. Solderless Terminal Kit

- Clear, hinged plastic box
- Box size: 8.3"L x 4.3"W x 1.3"H
- Use crimping tool P/N 72995 (below)
- Contains 18 different types of terminals and connectors (170 total pieces) as follows:
- Wt.: 0.6 lbs.



Qty.	Description	Wire Gauge	Blade Size	Qty.	Description	Wire Gauge	Blade Size
10	Male discon.	22-16	1/4"	10	Ring term.	16-14	#10
10	Male discon.	16-14	1/4"	5	Ring term.	12-10	#10
10	Fem. discon.	22-16	1/4"	5	Ring term.	12-10	#14
10	Fem. discon.	16-14	1/4"	10	Spade term.	22-16	#6
10	Ring term.	22-16	#6	10	Spade term.	22-16	#8
10	Ring term.	22-16	#8	10	Spade term.	16-14	#10
10	Ring term.	22-16	#10	10	Butt connec.	22-16	–
15	Ring term.	16-14	#6	10	Butt connec.	16-14	–
10	Ring term.	16-14	#8	5	Butt connec.	12-10	–

Part No.	Description	1	10	25
10989	Terminal kit	$9.95	$8.95	$6.95

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG



- Heavy-duty metal crimping tool w/ cutter
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Red insulated handles
- Coiled spring return
- Size: 7.3"L x 1.5"W
- Weight: 0.5 lbs.

Part No.	Product No.	1	10	25	100
99442	HT202A	$7.95	$7.25	$6.49	$5.95

We carry major manufacturers – call for pricing on quantities over 1000.

4-40 Mounting Screw Hardware for D-Subminiature Connectors

2 Pc. 4-40 Screw (.30"L) and Retainer Set



✳ Prepackaged: please order in increments of 10, 100 or 1000

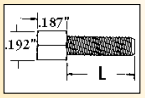
Part No.	Description	10	100	1000
102808	.30"L screw/retainer set....✳	$.19	$.15	$.12

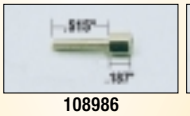
4 Pc. 4-40 x .187" Jack Screw (.31"L Thread), Washer, Lock Washer and Nut Set



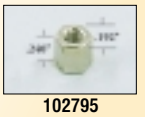
Part No.	Description	10	100	1000
16547★	.315"L screw/nut set.....✳	$.23	$.17	$.10

4-40 x .187" Jack Screws and Hex Nut





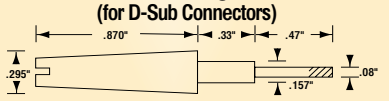
108986



102795

Part No.	Description	10	100	1000
169931	.275"L jack screw .....✳	$.16	$.12	$.09
172603	.315"L jack screw .....✳	.13	.09	.05
102816	.435"L jack screw .....✳	.17	.13	.10
108986	.515"L jack screw .....✳	.19	.14	.11
175636	.187"L hex nut .....✳	.15	.12	.06
102795★	.240"L hex nut .....✳	.17	.12	.06

4-40 x 1.9" Plastic Beige Thumbscrew (for D-Sub Connectors)

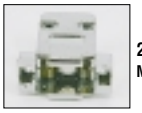


Part No.	Description	1	10	100	1000
125014	1.9"L thumbscrew	$.35	$.25	$.19	$.15

D-Subminiature Connector Hoods



15085 Plastic



25620 Metalized

- Use with D-sub solder cup & housing style connectors
- Hardware included • Weight: 0.2 lbs.

D Series: plastic hood with strain relief (gray)
MD Series: metal coated plastic hood with strain relief
MH Series: die-cast metal DB25 hood with strain relief

Part No.	Product No.	Connector	1	10	100	1000
15721★	DE9H	9-pin	$.32	$.25	$.19	$.15
25620	MDE9H	9-pin	.45	.35	.29	.25
147740	DE9MH	9-pin	.99	.79	.55	.49
15018★	DA15H	15-pin	.35	.29	.22	.17
25566	MDA15H	15-pin	.45	.35	.29	.25
15085★	DB25H	25-pin	.39	.32	.25	.19
25603	MDB25H	25-pin	.45	.35	.29	.25
15106	DB25MH	25-pin	1.25	1.09	.95	.79
15456	DC37H	37-pin	.55	.45	.32	.25
25611	MDC37H	37-pin	.65	.55	.45	.32
15659	DD50H	50-pin	.75	.65	.55	.45

25-Pin Dual Plastic Hood

Designed for custom applications requiring two D-sub connectors. Applications include custom jumper boxes and interconnects. Connectors not included. Hardware included. • Weight: .04 lbs.





Shown assembled

Part No.	Description	1	10	100	500
34091	25-pin, plastic dual	$.79	$.65	$.55	$.39

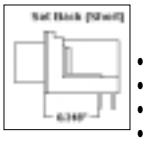
D-Subminiature Connectors

- Metal shells are tin-plated for improved EMI/RFI shielding
- Insulation material: PBT, UL rated 94V-0
- Operating temperature: -55°C to +105°C
- Contact material: phosphor bronze (gold plating over nickel)
- Insulation resistance: minimum 1000MΩ at 500VDC
- Dielectric withstanding voltage: 1000V (one minute)
- Current rating: 1A to 5A
- High temperature thermoplastic

D-Subminiature Right Angle, PC Mount Connectors

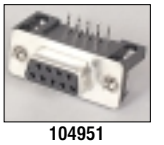
Shell is available in low-cost plastic, or in metal for shielded applications. Tables below indicate shell type.

- Weight: .04 lbs.



0.318" Set Back (Short Style)

- Lead length: .138"
- Lead spacing: .115"
- Shell: Metal
- Current rating: 1A



104951

Part No.	Product No.	Cont.	Gender	1	10	100	500
104942	DE9P318	9	M	$.49	$.39	$.32	$.25
104951	DE9S318	9	F	.55	.45	.35	.29
71124	DA15P318	15	M	.65	.55	.39	.32
77956	DA15S318	15	F	.65	.55	.35	.32
168743	DA15P318HD*	15	M	.39	.29	.22	.15
71466	DA15S318HD*	15	F	.49	.39	.25	.19
15149	DB25P318	25	M	.75	.59	.49	.35
15181	DB25S318	25	F	.79	.65	.55	.35
71706	DC37P318	37	M	.99	.79	.55	.49
78182	DC37S318	37	F	.99	.79	.55	.49

*High Density



0.590" Set Back (Long Style)

- Lead length: .178"
- Lead spacing: .104"
- Current rating: 1A



104977

Part No.	Product No.	Contacts	Gender	Shell	1	10	100
15763	DE9P590PL	9	M	plastic	$.25	$.19	$.12
104969	DE9P590	9	M	metal	.89	.75	.49
104977	DE9S590	9	F	metal	.89	.75	.65
104985	DA15P590	15	M	metal	.45	.35	.29
104993	DA15S590	15	F	metal	.79	.59	.39
105005	DB25P590	25	M	metal	.99	.79	.49
105013	DB25S590	25	F	metal	1.19	.99	.65

D-Subminiature IDC Ribbon Cable Connectors

Specifications:

- Current rating: 1 amp
- Temp range: -55°C to +120°C
- Insulation mat: glass filled polyester
- Contact material: phosphor bronze
- Weight: .05 lbs.
- **P/N 109217 & 109225 require flat cable w/ .0625" centers**



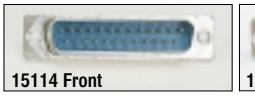
12431

Features:

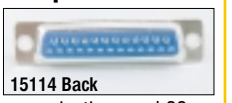
- Terminates with standard D type connectors

Part No.	Product No.	Contacts	Gender	Shell	1	10	100
109225	MDE9P	9	M	metal	$1.09	$.89	$.75
12503	CDE9P★	9	M	plastic	1.25	.99	.65
109217	MDE9S	9	F	metal	1.09	.89	.75
12520	CDE9S★	9	F	plastic	1.25	.99	.65
117381	MDA15P	15	M	metal	1.25	.99	.59
12298	CDA15P	15	M	plastic	1.25	.99	.59
116011	MDA15S	15	F	metal	1.25	.99	.69
12319	CDA15S	15	F	plastic	1.25	.99	.65
115983	MDB25P	25	M	metal	1.25	.99	.79
12335	CDB25P★	25	M	plastic	1.25	.99	.79
115975	MDB25S	25	F	metal	1.25	.99	.79
12431	CDB25S★	25	F	plastic	1.25	.99	.79
115991	MDC37P	37	M	metal	1.95	1.75	1.25
12466	CDC37P★	37	M	plastic	2.25	1.95	1.49
116003	MDC37S	37	F	metal	1.95	1.75	1.35
12482	CDC37S★	37	F	plastic	2.25	1.95	1.49

D-Subminiature Solder Cup Connectors



15114 Front



15114 Back

- Compatible with 24 AWG communications and 22 AWG solid cable (pg 62 & 63) • Weight: .04 lbs.

Part No.	Contacts	Gender	Shell	1	10	100	1000
15747★	9	M	metal	$.35	$.29	$.22	$.17
15771★	9	F	metal	.45	.35	.29	.22
15077	15	M	metal*	.55	.45	.35	.22
164822	15	F	metal*	.59	.49	.39	.25
15034★	15	M	metal	.45	.35	.29	.19
15051★	15	F	metal	.49	.39	.32	.19
15114★	25	M	metal	.49	.39	.32	.25
15157★	25	F	metal	.55	.45	.35	.29
15472★	37	M	metal	.79	.65	.55	.32
15499★	37	F	metal	.95	.75	.59	.35
15675	50	M	metal	1.35	1.15	.99	.85
15691	50	F	metal	1.25	.99	.85	.75

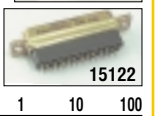
*High Density

D-Subminiature Straight, PC Mount Connectors

- Insulator material: two-piece nylon
- Current rating: 5 amps • 125 Vrms
- Non-removable contacts Contact material: copper alloy with gold over nickel contact plate
- Operating temP.: -65°F to +250°F



15780



15122

Part No.	Product No.	Contacts	Gender	Shell	1	10	100
111691	DE9PPCB	9	M	metal	$.39	$.32	$.22
15780	DE9SPCB	9	F	metal	.39	.32	.22
174836	DE15HDPPCB	15	M	metal	.55	.45	.35
176760	DA15PPCB	15	M	metal	.49	.39	.29
176751	DA15SPCB	15	M	metal	.49	.39	.29
15122	DB25PPCB	25	M	metal	.59	.45	.29
15165	DB25SPCB	25	F	metal	.59	.45	.29
180013	DC37PPCB	37	M	metal	.69	.55	.45
180021	DC37SPCB	37	F	metal	.69	.55	.45

D-Subminiature Housing Crimp Type Connectors and Pins

- Connectors: metal shell; removable crimp male/female pin

43369 (Fits all female housings)



- Male/female pins: gold plated contact; tinned crimp tail
- Insertion/extraction tool: red/white plastic body; exchangeable tips



38771



19094

- Use 99442 (pg 124) to crimp pins (43377, 43369)
- Weight: .01 lbs.



180890

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Description	1	10	100	1000
73189	DE9 male housing	$.39	$.32	$.25	$.15
73197	DE9 female housing	.39	.32	.25	.15
73200	DA15 male housing	.39	.32	.25	.15
73218	DA15 female housing	.45	.35	.29	.17
180881	HDDE15 male housing	.45	.35	.29	.17
180890	HDDE15 female housing	.45	.35	.29	.17
38789	DB25 male housing	.45	.35	.29	.17
38771	DB25 female housing	.45	.35	.25	.17
180048	DC37 male housing	.69	.55	.45	.35
180030	DC37 female housing	.69	.55	.45	.35
43377	Male crimp pins ✳	.06	.05	.04	
43369	Female crimp pins ✳	.06	.05	.04	
19094	Insertion/extraction tool for above pins (HT101)	2.95	2.49	1.95	1.49

BNC Coax Connectors

We carry major manufacturers – call for OEM PRICING.

Jameco BNC connectors are miniature, lightweight units designed to operate up to 11 GHz and typically yield low reflection up to 4 GHz. • Weight: .06 lbs.

Part No.	Fig.	Description	1	10	100	500
71458	1	BNC male terminator (50Ω)	$1.35	$1.09	$.75	$.59
71790	1	BNC male terminator (75Ω)	1.35	1.09	.89	.59
102306	1	BNC male terminator (93Ω)	.99	.85	.69	.55
135618	2	BNC male with pin and ferrule (RG6)	.69	.55	.29	.25
71482	2	BNC male with pin and ferrule (RG58)	1.09	.89	.69	.49
71271	2	BNC male with pin and ferrule (RG59/62)	1.09	.89	.69	.49
112109	2	BNC male with pin and ferrule (RG174)	1.09	.89	.69	.49
119394	3	BNC male clamp-on (RG59/62)	1.35	1.09	.75	.59
108994	4	BNC male twist-on (RG58)	.99	.79	.49	.45
71781	4	BNC male twist-on (RG59/62)	1.09	.89	.75	.55
71589	5	BNC female panel mount (UG-1094A)	1.09	.89	.75	.59
71909	6	BNC female/female coupler (UG-914)	.89	.69	.59	.45
127343	7	BNC male/male coupler (UG-491B/U)	1.49	1.25	.89	.79
111561	8	BNC female isolated bulkhead	1.75	1.49	1.25	.89
148224	9	BNC female bulkhead feed-thru.	1.49	1.25	.99	.79
148232	9	BNC female isolated bulkhead feed-thru.	1.75	1.49	1.25	.99
127351	10	BNC M-F right angle (DG-306B/O)	1.95	1.75	1.25	1.09
160928	11	BNC female, crimp type (RG58)	1.09	.89	.69	.55
161921	11	BNC female, crimp type (RG174)	1.09	.89	.59	.55
161269	12	BNC female, right angle; panel mount bulkhead	1.75	1.49	1.25	1.09
174289	13	BNC female chassis mount	1.09	.89	.75	.59
174300	14	BNC male solder type bulkhead	1.09	.89	.75	.59
174297	15	BNC female twist-on bulkhead	1.95	1.75	1.49	1.25
174271	16	BNC female right angle chassis mount	1.95	1.75	1.49	1.25
174318	17	Male to male/male T adapter	3.95	3.49	2.95	2.25
174262	18	BNC male to F connector male	1.49	1.25	.99	.79
174254	19	BNC male to F connector female	1.39	1.15	.89	.69


Figure 1


Figure 2


Figure 3


Figure 4


Figure 5


Figure 6


Figure 7


Figure 8


Figure 9


Figure 10


Figure 11


Figure 12


Figure 13


Figure 14


Figure 15


Figure 16


Figure 17


Figure 18


Figure 19

BNC Coax T Adapter Connectors

Application: General purpose coax T adapter; ThinNet/Ethernet LAN adapter

• Color: silver • Weight: .08 lbs.

Part No.	Description	1	10	100	500
118594	Male to female/female T adapter	$1.75	$1.49	$.99	$.79
72629	Female to female/female T adapter	1.95	1.75	1.25	.99
100589	Male to female/female T adapter (90°)	3.49	3.25	2.75	2.49
100597	Male to female/female T adapter (180°)	4.49	3.95	3.25	2.49
117461	Male to female/female F adapter (90°)	3.49	2.95	2.25	1.95


118594


72629


100589

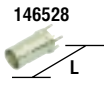

100597


117461

BNC PCB Mounting Connectors

Part No.	Description	Length (L)	1	10	100	500
146528	BNC straight metal	.719"	$1.95	$1.75	$1.35	$1.15
175935	BNC straight plastic insulation	1.40"	1.95	1.75	1.49	1.25
146510	BNC right angle plastic insulation	1.37"	1.95	1.75	1.49	1.25
161656	BNC right angle metal	.861"	1.95	1.75	1.09	.99

- **146528:** Ideal for applications where multiple insertions will require a connector which can endure the stress of high torque
- **175935:** Vertical PC mount with posts
- **146510:** Maintaining matching impedance at 50 and 75Ω. Ideal for LAN cards and precision video • Weight: 0.02 lbs.




146510


161656


175935

BNC & RCA Adapter Connectors

• Convert existing cabling systems to more readily available parts for expansion, replacement or upgrade • Weight: .02 lbs.

Part No.	Description	1	10	100	500
114788	RCA female to BNC male adapter	$1.09	$.89	$.69	$.45
114753	RCA male to BNC female adapter	1.25	.99	.79	.55
159441	RCA female to female adapter	1.09	.89	.59	.49
114770	BNC female to "F" connector male adapter	1.49	1.25	.99	.75


114788


114753


114770


159441

BNC Coax Network Balun

- Converts BNC coaxial cable to twisted-pair wires with either a modular (RJ11) jack or 2 screw terminals
- 100Ω termination
- Size: 1.8"L x 0.8"W x 1.0"H
- Weight: 0.1 lbs.



Part No.	Description	1	10	50
72637	BNC coax network balun	$5.95	$5.35	$4.79

See page 62 for our selection of SMA Connectors and Adapters

JAMECO SMA Connectors and Adapters

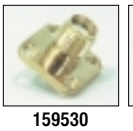
P/N 153293: Coupler Connector
• 18 GHz • Gold plated
• SMA straight connector jack-to-jack
P/N 161277/161293/161306: SMA Couplers
• 12 GHz • 50Ω impedance • Gold plated
P/N 153285: Bulkhead Connector
• SMA bulkhead rear mount solder cup
• 18 GHz • Gold plated
P/N 159530/160021: Panel Mount Connector
• SMA female connector • 12 GHz
• Solder cup • Gold plated
P/N 160012: SMA Coupler; Panel Mount
• 12 GHz • Nickel plated • 50Ω impedance


153293

161277

161293

161306

153285

159530

160021

160012

Part No.	Description	1	10	50	100
153293	Straight coupler female-female	$2.25	$1.95	$1.49	$1.25
161277	3-way coupler (1) male - (2) female	3.25	2.75	2.25	1.95
161293	Straight coupler male - male	2.49	2.25	1.75	1.49
161306	Right angle coupler male - female	3.49	2.95	2.25	1.95
153285	Bulkhead solder female	2.25	1.95	1.75	1.39
159530	SMA female 4 mounting holes	2.49	2.25	1.75	1.49
160021	SMA female 2 mounting holes	2.49	2.25	1.65	1.39
160012	Panel mount female - female	2.95	2.49	1.95	1.75

P/N 153373/157972: Plug Connectors
• SMA male plug connector for RG58 cable assembly
• Gold plated • 50Ω crimp type
P/N 153365: Plug Connector
• SMA male plug connector for RG174 cable assembly
• Gold plated • Crimp type
P/N 153453/159468/153592/159476: Adapters
• Adapters from SMA to BNC • Nickel plated
P/N 145381/145373: PCB Connectors
• Application: cellular phone, data communication, instrumentation and video
• Blunt-post terminal • Gold plated • Four legs (leads)


153373

157972

153365

153453

159468

153592

159476

145381

145373

Part No.	Description	1	10	50	100
153373	RG58 bulkhead crimp	$1.65	$1.39	$1.15	$.99
157972	RG58 connector	2.95	2.49	1.95	1.75
153365	RG174 connector	3.25	2.75	2.25	1.95
153453	SMA female to BNC male adapter	2.49	2.25	1.75	1.49
159468	SMA female to BNC female adapter	2.49	2.25	1.55	1.39
153592	SMA male to BNC male adapter	2.75	1.95	1.75	1.59
159476	SMA male to BNC female adapter	2.49	2.25	1.95	1.75
145381	Straight female PCB mount	4.95	4.49	3.95	3.25
145373	90° female PCB mount	4.95	4.49	3.95	3.49

SMB Connectors

• 0-4GHz electrical performance
• 50Ω impedance
• Connector: brass with gold plating
• Insulation: teflon
• Contact: beryllium copper


167302

167311

Part No.	Description	1	10	50	100
167302	Female PCB	$2.25	$1.95	$1.75	$1.49
167311	Fem. right angle PCB	4.95	4.49	3.95	3.49

SMB Jack Connectors

• SMB bulkhead jacks for RG174 cable
• 50Ω crimp type
• Gold plated
• Use with crimping tool P/N 114534 (pg 124)



Part No.	Description	1	10	50	100
172363	Bulkhead crimp female	$3.49	$2.95	$2.49	$2.25
172371	Bulkhead crimp male	2.95	2.49	2.25	1.95

Now an easier way to get real time information



• Up to the Minute Pricing and Inventory Information
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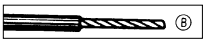
www.jameco.com

Wire and Cable

We carry major manufacturers – call for large OEM pricing.

18/20/22 AWG Stranded Hook-up Wire

300 Volts • 80°C • PVC insulation
• CSA: TR-64 • UL style: 1007
• Temperature range: -40°C to +80°C • **Sold in 100' rolls**




Part No.	Product No.	AWG	Strands (No. X AWG)	Color	Weight (lbs.)	1	10
126084	223SBK/C	22	7x30	Black	0.4	$2.95	$2.49
126033	223SR/C	22	7x30	Red	0.4	2.95	2.49
126076	223SW/C	22	7x30	White	0.4	2.95	2.49
125840	203SBK/C	20	10x30	Black	0.6	3.49	2.95
125794	203SR/C	20	10x30	Red	0.5	3.49	2.95
125831	203SW/C	20	10x30	White	0.5	3.49	2.65
125786	183SBK/C	18	16x30	Black	0.8	3.95	3.49
125735	183SR/C	18	16x30	Red	0.8	3.95	3.49
125751	183SW/C	18	16x30	White	0.8	3.95	3.25

30 AWG Tri-Color Wire/Dispenser

See page 125 for Wire-Wrapping Tool

Quickly cuts, strips and dispenses wire from three separate spools.
• Includes three 50' spools of 30 AWG wire (blue, white and red) and push button cutter • Weight: 0.2 lbs./ft.



Part No.	Product No.	Description	1	10
117807	WD-30-TRI	Wire wrap, tri-color dispenser	$24.95	$22.49

22 AWG Solid Hook-up Wire

600 Volts
• 105°C • PVC insulation • Tinned copper
• Temperature range: -55°C to +105°C
• MIL-W-16878D Type B • Passes UL VW-1 flame test
• For use with breadboards such as the JE20 series (pg 102)
• Weight: 100' (0.3 lbs.); 1000' (3.8 lbs.)



Part No.	Product No.	Color	100 ft.
36767	122BE/C	Blue	$3.95
36791	122BK/C	Black	3.95
36821	122G/C	Green	3.95
36855	122R/C	Red	3.95
36880	122W/C	White	3.95
36919	122Y/C	Yellow	3.95

Part No.	Product No.	Color	1000 ft.
36775	122BE/K	Blue	$29.95
36804	122BK/K	Black	29.95
36839	122G/K	Green	29.95
36863	122R/K	Red	29.95
36898	122W/K	White	29.95
36927	122Y/K	Yellow	29.95

28 AWG Modular Telephone Cable

103430



• Color coded conductors • Flat modular cable • PVC jacket
• Gray • 7 x 43 stranded • Weight: 0.02 lbs. per foot

Part No.	Product No.	Conductors	100 ft.	1000 ft.	10000 ft.
103430	MTC4	4	$3.30	$30.00	$250.00
103448	MTC6	6	7.00	40.00	350.00
103450	MTC8	8	10.00	60.00	500.00

We carry major manufacturers – call for large OEM pricing.

28 AWG Gray Flat Ribbon Cable*


103481

- Ideal for use with: insulation displacement DIP jumpers, card-edge connectors and socket connectors. See pages 55-54
- Single edge red stripe for pin 1 orientation
- Weight: 0.08 lbs./ft.
- Insulation: Polyvinyl chloride (PVC)
- Voltage rating: 300V
- Center spacing: .05"
- Temperature rating: -20°C to +80°C
- Stranded copper wire
- 28 AWG (7 x 36)

Part No.	Product No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
135538	171-10	10	$1.49	$3.20	$10.00	$40.00
37671	171-16	16	1.75	4.00	12.50	57.00
37719	171-20	20	1.95	4.50	16.00	65.00
37760	171-25	25	3.25	7.00	20.00	90.00
37807	171-26	26	3.49	8.00	20.50	95.00
37840	171-34	34	4.25	9.25	27.00	95.00
37911	171-37	37	4.95	11.75	25.00	115.00
37920	171-40	40	4.95	11.75	32.00	145.00
37954	171-50	50	6.75	14.50	40.00	170.00
103481	171-60	60	8.95	17.75	42.00	200.00

*Prepackaged and priced in increments of 10', 25' or 100'

28 AWG Multicolor Flat Ribbon Cable*


105718

- Ideal for use with: insulation displacement DIP jumpers, card-edge connectors, socket connectors and IDC connectors
- Standard 10 color repeat sequence
- Center spacing: 0.05"
- Temperature rating: -20°C to +80°C
- Voltage rating: 300V
- Wt.: .07 lbs./ft.
- Insulation: Polyvinyl chloride (PVC)
- Stranded copper wire
- 28 AWG (7 x 36)

Part No.	Product No.	Conductors	10 ft.	25 ft.	100 ft.	500 ft.
112547	28RC10	10	$1.95	$4.50	$17.50	$70.00
105671	28RC16	16	3.25	7.25	24.00	100.00
105689	28RC20	20	3.95	9.00	30.00	125.00
105697	28RC25	25	4.95	11.50	36.00	160.00
105700	28RC34	34	6.75	15.00	45.00	210.00
105726	28RC40	40	7.95	18.50	64.00	285.00
105718	28RC50	50	9.95	23.00	73.00	325.00

*Prepackaged and priced in increments of 10', 25' or 100'

RG Type Coaxial Cable*



RG6 (75Ω): • Nom. capac. 16.2pf/ft. • Center resist. 1.1Ω/3ft. @ 77˚F

RG58/U & RG58A/U (50Ω): • Nom. capac. 27pf/ft. • Center resist. 10.4Ω/1Kft. @ 77˚F

RG59/U (75Ω): • Nominal capac. 19pf/ft. • Center resist. 16.5Ω/1Kft. @ 77˚F

RG174/U (50Ω): • Nominal capac. 30.8pf/ft. • Center resist. 97Ω/1Kft. @ 77˚F

Part No.	Product No.	Description	100 ft.	1000 ft.
177210	RG6	For CATV, Satellite	$18.90	$149.00
102226	RG58/U	For Ethernet, oscilloscopes (solid 20AWG)	9.00	75.00
116898	RG58A/U	For Ethernet, oscilloscopes (stranded 20AWG)	14.00	100.00
102218	RG59/U	For CATV and video patch cords (solid 22AWG)	11.00	80.00
112037	RG174/U	For Ethernet, oscilloscopes (stranded 26AWG)	12.00	90.00

*Prepackaged and priced in increments of 100' or 1000'

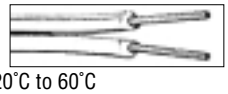
BELKIN Thin Ethernet Coaxial Cable



- Braided overall shield
- Thin ethernet coaxial cable
- Stranded copper with center conductor
- RG58
- Meets IEEE 10Base2 specifications
- 50Ω impedance
- *Prepackaged & priced in increments of 25', 100' & 250'*

Part No.	Product No.	Description	25 ft.	100 ft.	250 ft.
172507	A7H9907-250	Thin ethernet coaxial cable	$8.00	$20.00	$40.00

24 AWG 300V 2 Conductor Stranded Power/Speaker Cable

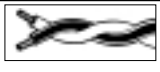


- Operating voltage: 300
- Temperature rating: 20˚C to 60˚C
- Stranded copper wire (7 x 32)
- Black wire with white polarity stripe

Part No.	Product No.	Color	Wt. (lbs.)	100 ft.
100280	224BK/C	Black	0.8	$4.95

Part No.	Product No.	Color	Wt. (lbs.)	1000 ft.
100298	224BK/K	Black	7.8	$39.95

24 AWG Twisted Pair Cable




300 Volts: • 80C° • PVC insulation

- Stranded tinned wire (7 x 32)
- Reduced EMI
- Use for hook up wire
- Weight: 100' (0.5 lbs.); 1000' (4.7 lbs.)

Part No.	Product No.	Color	100 ft.
105911	224GW/C	Green/White	$4.95
173147	224RW/C	Red/White	4.95
173163	224BW/C	Black/White	4.95

Part No.	Product No.	Color	1000 ft.
105806	224GW/K	Green/White	$39.95
173155	224RW/K	Red/White	39.95
173171	224BW/K	Black/White	39.95

Modular Data Network Cable*

24 AWG UTP Category 5


118130

- 100MHz • Color: gray • 8C • 4 twisted pairs
- Insulation: polyethylene • Nom. OD.: .189" • Nom. impedance: 100Ω

118130: uses modular plug P/N 79281 (pg 168)
118113: uses modular plug P/N 119343 (pg 168)
*Prepackaged and priced in increments of 25' or 100'

Part No.	Description	Wt. (lbs.)	25 ft.	100 ft.	1000 ft.
118113	Solid	0.02	$4.00	$11.00	$90.00
118130	Stranded (7/32 AWG)	0.02	5.00	14.00	125.00

Modular Network Cable

24AWG UTP Category 5 Enhanced


176233

- 350MHz
- 8C
- 4 twisted pairs
- Color: gray
- Weight: 0.02 lbs.

Part No.	Description	25 ft.	100 ft.	1000 ft.
176225	Solid	$5.00	$14.00	$80.00
176233	Stranded (24AWG)	6.00	18.00	150.00

24 AWG Multiconductor Shielded Computer Communication Cable*


31843

- Stranded copper wire, multi-colored insulation
- Insulated with polyvinyl chloride (PVC)
- Drain wire
- 24 AWG (7 x 32 AWG)
- Color: gray
- Voltage rating: 300V
- Shielded 100% w/ aluminum mylar

*Prepackaged and priced in increments of 25' or 100'

Part No.	Prod. No.	Conductors	Diameter	Wt. (lbs.)	25 ft.	100 ft.	1000 ft.
31860	SC4	4	0.20"	0.02	$4.75	$14.00	$110.00
31878	SC9	9	0.23"	0.03	9.75	25.00	190.00
31843	SC15	15	0.28"	0.05	13.75	35.00	210.00
31851	SC25	25	0.37"	0.09	17.25	49.00	300.00

30 AWG Kynar™ Wire Wrap Wire


22541

- Assorted color coded insulation
- Used for prototyping
- Color coded Kynar™ (Polyvindene Fluoride) insulation
- Silver plated copper (solid conductor)
- UL 1423
- Temperature: -40°C to +125°C
- See pg 54 for ww sockets
- Wire wrap tools on pg 125
- Passes UL VW-1 flame test

Part No.	Color	Weight (lbs.)	100 ft.
22541	Blue	0.1	$3.95
22576	Black	0.1	3.95
22630	Red	0.1	3.95
22664	White	0.1	3.95
22605	Green	0.1	3.95
22699	Yellow	0.1	3.95

Part No.	Color	Weight (lbs.)	1000 ft.
22550	Blue	0.6	$29.95
22584	Black	0.6	29.95
22648	Red	0.6	29.95
22672	White	0.6	27.95
22613	Green	0.6	27.95
22701	Yellow	0.6	29.95

Nylon Cable Ties

Standard (clear)

70560

Sold in 100s or 1000s

- Cable ties made from UL approved nylon 6/6
- Temperature range: -40˚C to +85˚C
- Flamability rating: UL 94V-2

Part No.	Description	Tensil Strength	Dimensions	100	1000
70560	Cable tie	18 lbs.	3.1"L x 0.1"W	$.025	$.015
126543	Cable tie	18 lbs.	4.0"L x 0.1"W	.025	.015
139150	Cable tie	18 lbs.	8.0"L x 0.1"W	.03	.02
70906	Cable tie	40 lbs.	5.8"L x 0.1"W	.03	.02

Weather Resistant (black)


104141

UV Resistant

Sold in 100s or 1000s

- Contain Carbonate A for greater resistance to ultra violet rays in outdoor use

Part No.	Description	Tensil Strength	Dimensions	100	1000
139125	Cable tie	18 lbs.	3.0"L x 0.9"W	$.025	$.015
104141	Cable tie	18 lbs.	4.0"L x 0.1"W	.025	.015
104133	Cable tie	40 lbs.	5.8"L x 0.1"W	.03	.02
139141	Cable tie	50 lbs.	4.8"L x 0.18"W	.03	.02

Cable Tie Assortments


145701 (closeup)

145701

- Tension strength: 18-50 lbs.

145701: 1000 pcs. (4"L)
150412: 500 pcs. (4"L); 300 pcs. (8"L); 50 pcs. (11"L)

Part No.	Description	Wt. (lbs.)	1	10	50
145701	Canister pack, 10 colors (1000 pcs.)	0.7	$8.95	$7.95	$5.49
150412	Canister pack, 5 colors (850 pcs.)	1.7	12.95	10.49	9.49

3M Tape Wire Markers



- For marking wires with numerical sequence
- Size: (tape) 96"L x 0.25"W; (dispenser) 2.4"L x 1.2"Dia
- Includes cutting bar and eyelet for hanging
- Self adhesive tapes numbered 0-9

Part No.	Description	Wt. (lbs.)	1	10
159231	Numerical tape dispenser	0.2	$32.95	$29.95

We carry major manufacturers – call for OEM pricing.

Assembled BNC Coax Cables



181307 152311 85542

- Pre-assembled with male coax connectors
- P/N 152311 has male and female coax connectors

RG58/U 50Ω Cables

- For Ethernet networks, oscilloscopes • Weight: 2.2 lbs.

Part No.	Prod. No.	Length	1	10	50	100
181307	CRG58-1RR	1 ft.	$2.49	$2.25	$1.95	$1.75
102314	CRG58-1	1.5 ft.	2.25	1.95	1.75	1.49
11404	CRG58-3 ★	3 ft.	2.49	2.25	1.95	1.75
102331	CRG58-6	6 ft.	2.95	2.49	2.25	1.95
152311	RG58MF-6	6 ft.	2.49	2.25	1.65	1.35
180822	CRG58-10	10 ft.	3.95	3.49	2.75	2.25
102349	CRG58-12	12 ft.	4.49	3.95	3.49	2.75
169818	CRG58-15	15 ft.	4.39	3.95	2.95	2.65
180849	CRG58-22	22 ft.	4.95	4.49	3.95	3.49
102357	CRG58-25	25 ft.	5.49	4.95	4.49	3.49
102365	CRG58-50	50 ft.	7.95	6.95	4.95	4.49
102381	CRG58-100	100 ft.	12.95	11.49	10.49	8.95

RG59/U 75Ω Cables

- For CATV and video patch cords • Weight: 0.4 lbs.

Part No.	Product No.	Length	1	10	50	100
86471	CRG59-1	1.5 ft.	$2.49	$2.25	$1.75	$1.49
85542	CRG59-6	6 ft.	2.95	2.49	2.25	1.95
102373	CRG59-12	12 ft.	3.95	3.49	2.75	2.25

RG174/U 50Ω Cables

- For Ethernet networks, oscilloscopes • Wt.: 0.1 lbs.

Part No.	Product No.	Length	1	10	50	100
111472	RG174U3	3 ft.	$2.95	$2.49	$2.25	$1.75
111481	RG174U6	6 ft.	3.25	2.75	2.49	1.95

Assembled SMA/SMB 50Ω Coax



175118 / 159370 / 159396 153381 / 153390 / 159450



175126 / 175134 175142 / 175151 175169 / 175177

175126/175134: SMA male to SMA right angle male
175142: SMA right angle male to SMA right angle male
175169/175177: SMB male to SMB male

Part No.	Product No.	Cable	Length	1	10	50
175118	CSMA805	RG58	.5 ft.	$3.75	$3.25	$2.75
159370	CSMA82	RG58	2 ft.	3.95	3.49	2.75
159396	CSMA86	RG58	6 ft.	4.95	4.49	3.49
169800	CSMA05	RG174	.5 ft.	3.75	3.25	2.75
163854	CSMA1	RG174	1 ft.	3.95	3.49	2.75
153381	CSMA2	RG174	2 ft.	4.25	3.75	2.95
153390	CSMA4	RG174	4 ft.	4.95	3.95	3.49
159450	CSMA6	RG174	6 ft.	5.49	4.95	4.25
175126	CSMAR05	RG174	.5 ft.	4.95	4.49	3.95
175134	CSMAR1	RG174	1 ft.	5.49	4.95	4.49
175142	CSMARR05	RG174	.5 ft.	5.95	5.35	4.79
175151	CSMARR1	RG174	1 ft.	6.49	5.75	4.95
175169	CSMB05	RG174	.5 ft.	4.49	3.95	3.49
175177	CSMB1	RG174	1 ft.	4.95	4.49	3.95

Assembled COAX Cables

RG6 75Ω Cables

- Assembled cables with BNC and F type connectors



176794 177228

Part No.	Description	1	10	50
176794	3' BNC to BNC	$2.49	$2.25	$1.95
176815	6' BNC to BNC	2.95	2.49	2.25
177228	3' F to F type	2.49	2.25	1.95
176807	6' F to F type	2.95	2.49	2.25

JAMECO® F-type 75Ω Cables



- Typical application: F connector (VCR)
- Low signal loss
- Made of high-quality 75 ohm RG59 cable • Strain relief • Weight: 0.2 lbs.

Part No.	Product No.	Cable	Length	1	10	100
85585	FS3FS	RG59/U	4.5 ft.	$.85	$.65	$.45

JAMECO® Coaxial Cable Stripper



- Strips RG58, 59 and 62 cable
- Heavy duty black plastic
- Replaceable blades
- Size: 4.2"L x 0.8"W • Weight: 0.1 lbs.

Part No.	Description	1	10
73066	3 bladed coax cable stripper	$12.95	$10.49

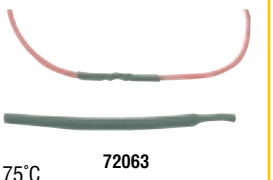
Braided Nylon Lacing Tape



- Waxed finish
- Color: natural • Braided
- Excellent knot retention
- Meets specification: MIL-T-43435B type 1 size 3 finish B
- Size: .085"W x 500 yards long • Weight: 0.6 lbs.

Part No.	Description	1	10
174369	Lacing Tape	$19.95	$17.95

PVC and Polyolefin Heat Shrink Tubing - 39" (1 Meter Length)



72063

- 2:1 uniform shrink ratio
- Color: black
- Will not cold flow or melt
- Temperature range: -45˚C to +125˚C
- Shrink temperature: 175˚C
- See page 95 for heat guns
- **Length 39" (1 meter), sold as 1 increment**
- Weight: .01 lbs.

PVC Heat Shrink Flat Film

Part No.	Flat	Unshrunk Cir. Dia.	Shrunk Cir. Dia.	1	10	100
70631	5/16"	1/4"	1/8"	$.49	$.39	$.29
70623	1/2"	5/16"	3/16"	.55	.45	.25
70666	13/16"	9/16"	1/4"	.55	.45	.25

Polyolefin Heat Shrink Tubing

- Dielectric strength: 1300V • Shrink temperature: 121°C
- Flexible • Flame retardant

Part No.	Before	After (Dia.)	1	10	100
71327	1/16"	1/32"	$.59	$.49	$.39
71870	3/32"	3/64"	.65	.55	.39
71280	1/8"	1/16"	.75	.59	.49
72063	1/4"	1/8"	.99	.79	.65

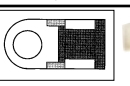
Black Electrical PVC Tape (30')



- Flame retardant
- Cold and weather resistant
- UL approved
- Length: 30'
- Maximum voltage: 600V
- Maximum temperature: 80˚C
- Size: 7 mil thick x .75"W x 30'L • Weight: 0.1 lbs.

Part No.	Description	1	10	100
150527	Electrical tape	$.75	$.59	$.49

Nylon Cable Tie Mounts and Cable Clamp



70594



71407 71394 71386

- Screw tab & cradle mount adhesive
- Used with nylon cable ties at left • **Sold in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
70594	0.8"L x 0.4"W screw 4-way cable tie, used w/ 0.2"W max	$.15	$.10	$.06
171213	0.5" square adhesive 4-way cable tie, used w/ 0.1"W max	.15	.10	.06
71407	0.9" square adhesive 4-way cable tie, used w/ 0.1"W max	.15	.10	.06
71394	1.1" square adhesive 4-way cable tie, used w/ 0.2"W max	.17	.13	.09
71386	1.1" square adhesive 2-way cable tie, used w/ 0.4"W max	.17	.13	.07
173761	0.6"L x 0.4"W cable tie, saddle type	.15	.10	.06
173711	Cable clamp for 1/8" cable	.09	.03	.025
173729	Cable clamp for 3/16" cable	.09	.03	.025
173737	Cable clamp for 1/4" cable	.09	.03	.025
173745	Cable clamp for 5/16" cable	.10	.035	.03
134754	Cable clamp for 3/8" cable	.10	.035	.03
173753	Cable clamp for 1/2" cable	.10	.035	.03



173761

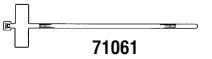


134754



173753

Nylon Cable ID Ties and Tabs



71061

135175

- **Sold in increments of 10, 100 or 1000**

Part No.	Description	Dimensions	10	100	1000
71061	ID tab (0.98 x 0.31) (clear)	4.0"L x 0.1"W	$.10	$.06	$.04
135175	Cable tie ID marker (nylon)	2.0"L x 0.8"W x .02"T	.12	.08	.05

TECHFLEX Cable Sleeve (Clean Cut Expandable Sleeving)



- Flame resistant • Cuts w/ ordinary scissors without fraying • Color: black
- Applications: protecting wires, cables and hoses • Operating temperature: -70˚C to 125˚C

Part No.	Product No.	Actual Dia.	Expanded Dia.	1	10
162149	CCPT1X	.093"	.250"	$9.95	$8.49
162157	CCPT2X	.125"	.440"	11.95	10.49
162165	CCPT3X	.250"	.750"	14.95	13.49

Sold in spools of 25'

1.5-28VDC Piezo Audio Signal Device



- Single tone
- Rated: 1.5-28VDC @ 20mA
- Sound pressure: 95dB @ 3500Hz
- Top mounting via mounting nut or base mounting via screw holes
- 4.5" color coded connector wires
- Two 0.6" screws with washers and nuts
- 1.35" mounting hole spacing
- Size: 1.0"H x 1.1"Dia.

Part No.	Description	1	10	100
76021	Piezo audio signal.....	$2.49	$2.25	$1.95

6-28VDC Audible Signal Devices

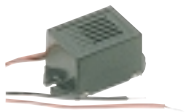


32601

- Single tone
- Turns on and off with low power transistor, SCR or IC
- Rated: 6-28VDC @ 15mA
- Solid-state – no moving parts
- Panel mounts in 1.25" round hole
- Black plastic case – includes mounting nut
- Sound pressure: 80dB @ 2900Hz
- Frequency: 2900Hz ±300
- Size: 1.4"H x 1.7"Dia. • Color: black
- P/N 32601 single tone constant audio output
- P/N 123537 dual tone constant audio output pulsed audio output (terminal selected)

Part No.	Product No.	Output Tone	1	10	100
32601	S3240★	Single	$3.95	$3.49	$2.49
123537	D3240	Dual	2.95	2.49	1.95

JAMECO 6-9VDC 800Hz Mini-Buzzer



- Operates on 6-9VDC
- Output frequency: 800Hz
- Draws only 30mA @ 9VDC
- Voltage: (nominal) 9VDC @ 25mA; (range) 6-12VDC
- SPL: 75dB • Sound: 80dB
- Frequency range: 400Hz ±15%
- Pin spacing: 27.9mm
- 1.1" mounting hole spacing • Color: black
- Size: 1.3"L x 0.6"H • Weight: 0.02 lbs.

Part No.	Product No.	Description	1	10	100
24871	MB6★	Mini-buzzer...	$1.39	$1.15	$.95

JAMECO 2-12VDC Mini Alarm Siren



- Rated: 2-12VDC @ 300mA
- Sound pressure: 108dB
- Output frequency: 3000Hz
- Black ABS plastic housing
- 16" color coded connector wires, tinned
- Size: 2.8"Dia. x 2.5"L

Part No.	Product No.	Description	1	10	50
148152	YC-321-1	Alarm siren....	$7.95	$6.95	$6.25

9-15VDC 400Hz Mini-Buzzer



- Operates on 9-15VDC
- Output frequency: 400Hz
- Rated 12VDC @ 25mA
- Sound: 75dB
- Wire leads: 4.5"L
- Size: 1.3"L x 0.7"W x 0.6"H
- 1.1" mounting hole spacing • Color: black

Part No.	Product No.	Description	1	10	100
140695	MB7	Mini-buzzer...	$1.39	$1.15	$.85

9VDC Electromechanical Buzzer



- Ideal for use in alarms and timers
- Sound pressure: 80dB (CLB27)
- Sturdy metal case • Weight: 0.2 lbs.
- Rated: 9VDC @ 220mA
- Fast-on terminals • Size: 1.3"H x 2.0"Dia.

Part No.	Description	1	10	100	1000
105822	9V buzzer	$.99	$.79	$.59	$.45

COBY® Omnidirectional Microphone Headset



- Frequency range: 20Hz to 20KHz (headset); 50Hz to 16KHz (microphone)
- Impedance: 32Ω (headset); low (microphone)
- Maximum power: 100mW
- Sensitivity: 98dB (headset); -62dB (microphone)
- Swivel microphone arm pivot
- Flexible microphone arm • 6' cable
- 1/8" phone jacks (2) • Weight: 0.3 lbs.

Part No.	Description	1	10	25
153875	Microphone headset..	$12.95	$11.49	$9.95

JAMECO 40kHz Ultrasonic Sensors



136653

- Case: aluminum flower
- Frequency: 40kHz ±1.0kHz

136653 Transmit/Receive

- Capacitance: 2000p*f* ±30%
- Transmitter: bandwidth 4.0kHz/112dB, sound pressure level 119dB/40 ±1.0kHz (0dB+0.0002 µbar) / 10V SN/cm/min.
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB/40 ±1.0kHz (0dB vs 1V µbar) R=3.9kΩ
- Lead length/spacing: 0.39"
- Case size: 0.47"H x 0.62" Dia.

139491 Transmit/Receive

- Capacitance: 2000p*f* ±20%
- Transmitter: bandwidth 5.0kHz/100dB, sound pressure level 112dB/40 ±1.0kHz (0dB+0.0002 µbar) / 10V SN/30cm/min. • Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB/40 ±1.0kHz (0dB vs 1V µbar) R=3.9kΩ • Lead length/spacing: 0.28"
- Case size: 0.30"H x 0.43" Dia.

Part No.	Product No.	Description	1	10	50
136653	40TR16F	Sensor set..	$5.95	$5.35	$4.49
139491	40TR12B	Sensor set....	5.95	5.35	4.49

Hands-Free Condenser Microphone



- Cord length: 8'
- 3.5mm male stereo plug
- Size: 1.9"L x 1.2"W x 0.3"H
- Wt: 0.1 lbs. • One-year warranty

Part No.	Description	1	10	25
135247	Microphone	$3.95	$3.49	$2.95

Desktop Microphone



VALUE!

- Neck length: 17.5"
- Cable length: 5.5'
- Weight: 0.1 lbs.
- One-year warranty

Part No.	Description	1	10	25
129963	Desktop microphone....	$4.95	$4.49	$3.95

5 and 12VDC Piezo Magnetic Buzzers

These 2-pin devices have driver circuits so that they can easily be used by applying a DC voltage source. The clear and penetrating sound make these buzzers ideal for fire and burglar alarms, as well as smoke detectors. • Single tone



76064



138712

Part No.	Operating Voltage (DC)	Frequency (kHz @ dB)	Type	Size (D" x H")	Wt. (lbs)	1	10	100	1000
76064★	5V @ 30mA	2.3 @ 85	Magnetic	.57 x 0.4	.004	$1.75	$1.49	$1.25	$.99
138712	12V @ 7mA	4.0 @ 80	Piezo	.54 x 0.3	.002	1.75	1.49	1.25	.99

Single Tone Magnetic Transducers (External Drive Required)

- Applied voltage: 1/2 duty, square wave
- Applications: counters, monitors, scanners, computers, peripheral equipment, fire and burglar alarms, and smoke detectors • Low power consumption
- High sound level and low input voltage • Long life



138739



106500

Part No.	Frequency (Hz @ dB)	Rated Voltage	Coil Resistance	Mounting Method	Size (D" x H")	Wt. (lbs.)	1	10	100
150586	2048 @ 70	1.5	52Ω	2 PC pins	.47 x .20	.009	$.49	$.39	$.25
138721	2048 @ 80	1.5	50Ω	2 PC pins	.46 x .32	.003	.75	.59	.45
138739	2400 @ 85	5.0	47Ω	2 PC pins	.46 x .35	.003	.99	.79	.65
106500	3200 @ 80	1.5	38Ω	2 PC pins	.48 x .40	.005	1.09	.89	.75

Omnidirectional Electret Condenser Microphone Cartridges

Applications:

- Telephone and answering devices • Built-in microphones for tape recorders • Intercoms
- Omnidirectional • Modems for computers • Sonic controlled toys and sensors
- Completed microphones for recording, testing, and monitoring • Hearing aids

175193



116505



137437



140986



Part No.	Type	Sensitivity	Impedance	Frequency (Hz)	Max. Op. Volt. (VDC)	Stand Op. Volt. (VDC)	Current (Max.)	Sensitivity Reduction	S/N Ratio	Terminals	Size (H x Dia.)	1	10	100	1000
116505	WM-54PC	-44 ±2dB	Low	20-16,000	10V	2.5V	0.6mA	-3dB @ 2V	>60dB	PC pin leads	.20" x .38"	$.75	$.59	$.49	$.39
136573	WM-60PC	-54 ±2dB	Low	20-12,000	1.5-12V	4.5V	0.5mA	-3dB @ 3V	>40dB	PC pin leads	.30" x .38"	.75	.59	.45	.39
137437	WM-62A	-45 ±4dB	Low	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	Solder pad	.12" x .24"	1.09	.89	.69	.59
152709	WM-62L	-45 ±4dB	Low	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	.5" wire leads	.12" x .24"	.75	.59	.45	.39
160979	WM-64PKT	-44 ±3dB	>2.2K	20-16,000	10V	2.0V	0.5mA	-3dB @ 1.5V	>58dB	PC pin leads	.10" x .24"	.29	.19	.15	.10
140986	CRM919	-64 ±3dB	1kΩ ±30%	20-10,000	1.5-12V	3.0V	0.8mA	-3dB @ 3V	>40dB	PC pin leads	.90" x .39"	.79	.65	.45	.39
175185	KUC7823	-51 ±2dB	22K	150-8,000	1.5-12V	4.5V	0.5mA	-2dB @ 4V	>40dB	Solder term	.19" x .24"	.35	.25	.19	.15
Microphone Bushing															
175193	KCU2054	Microphone bushing for P/N 175185 (✳ **10 piece minimum**)									.16"L x .20"	✳	$.15	$.12	$.09

JAMECO Round Ferrite Type Speakers

Designed for a wide range of audio electronics. For speaker wire, see page 63.

- Pretinned speaker lugs • Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm


135589 front


135589 back

Part Number	Product Number	Dimensions Dia. (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Imp (Ω)	Output SPL (dB)	Freq. Range (Hz)	Magnet Size (Dia.xTxH) (mm/inch)	Net Wt. (lbs.)	Price 1	Price 10	Price 100
135589	FE200	50 2.0	17.8 0.7	.2	.4	8	83	420 to 5000	32x18x6 1.3x0.7x0.2	.08	$1.25	$.99	$.69
10840	FE201	57 2.2	17.8 0.7	.2	.4	8	88	400 to 4500	32x18x6 1.3x0.7x0.2	.11	1.25	.99	.79
177130	57RF07	57 2.2	20.2 0.8	.5	.9	45	88	500 to 8000	40x1.1x12.4 1.6x0.4x0.5	.2	1.25	.99	.79

JAMECO Round Alnico Type Speakers

- For computer case use • Paper diaphragm
- Wide frequency response • Large magnet
- P/N 147475: 6" lead wire


135773 front


135773 back

Part Number	Product Number	Dimensions Dia. (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Imp (Ω)	Output SPL (dB)	Freq. Range (Hz)	Magnet Size (Dia.xH) (mm/inch)	Net Wt. (lbs.)	Price 1	Price 10	Price 100
88410	A0200	50 2.0	19.0 0.8	.2	.4	8	87	430 to 4500	13x10 0.5x0.4	.09	$1.75	$1.49	$1.25
135765	A0201C	57 2.2	19.5 0.8	.3	.5	8	87	400 to 4000	13x10 0.5x0.4	.07	1.35	1.09	.79
135773	A0202C	66 2.6	21.5 0.9	.5	1.0	8	88	320 to 5000	13x10 0.5x0.4	.10	1.35	1.09	.89

JAMECO Flat Magnet Square 8Ω Piezo Speakers

- Excellent for alarms or other voice uses
- Square frame
- Stainless steel diaphragm



76030 front & back

Part Number	Product Number	Dimensions Dia. (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Imp (Ω)	Output SPL (dB)	Frequency Range (Hz)	Net Wt. (lbs)	Price 1	Price 10	Price 100
34024	AZ30S	30 1.2	5 0.2	.4	.8	8	70	1300-8000	.01	$1.49	$1.25	$.99
76030	AZ40S	40 1.6	5 0.2	.4	.8	8	70	600-6000	.02	1.75	1.49	1.25

JAMECO Communications Speaker w/ Magnetic Mount

- Maximum input: 8 watts • Frequency range: 200 - 18,000Hz
- Impedance: 8Ω • Includes 3' cord with 3.5mm male plug
- Black ABS case • Size: 3.0"W x 2.0"D x 2.8"H • Wt.: 0.5 lbs.



Part No.	Product No.	Description	1	10
102031	CS3	Compact speaker	$9.95	$8.95

Multimedia Speakers (Pair)

Multimedia speaker systems for computers.

- 14.5W (RMS) self amplified per set (2)
- Headset jack • Size: 2.9"W x 4.7"D x 7.2"H
- *Complete specs on page 154*



Part No.	Description	Wt. (lbs.)	1	10	25
140020	14.5W stereo amplified speakers	2.7	$12.95	$11.49	$9.95

SOUND MiNDS Technology Inc. 4 Watt Amplified Stereo Speakers

Fits 5.25" Bay

- 8Ω speakers with frequency response of 250Hz to 20kHz @ 83dB
- Compatible with all sound boards, CD-ROMs, CD digital audio players and MPC systems
- Size: 5.8"W x 7.5"D x 1.7"H



Part No.	Description	Wt. (lbs.)	1	10
153541	4 watt self amplified speakers	1.4	$69.95	$59.95

JAMECO Square Ferrite Type Speakers

Designed for a wide range of audio electronics. For speaker wire, see pg 63.

- Pretinned speaker lugs • Large magnet
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Wide frequency response


99995 front


99995 back

Part Number	Product Number	Dimensions Dia. (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Imp (Ω)	Output SPL (dB)	Freq. Range (Hz)	Magnet Size (Dia.xTxH) (mm/inch)	Net Wt. (lbs)	Price 1	Price 10	Price 100
135693	FEB200	50 2.0	17 0.7	0.2	.3	8	82	500 to 6000	32x18x6 1.3x0.7x0.2	.12	$1.25	$.99	$.69
31958	FEB216	66 2.6	20 0.8	0.2	.4	16	85	330 to 8000	32x18x6 1.3x0.7x0.2	.14	1.75	1.49	1.25
99995	FEB204	66 2.6	23 0.9	3.0	4	4	95	300 to 14000	45x22x8 1.8x0.9x0.3	.29	1.95	1.75	1.49
171168	FEB450SP	107 4.2	38 1.5	1.0	2	8	90	300 to 14000	45x25x8 1.8x1.0x0.3	.37	1.75	1.49	1.25

JAMECO Square Alnico Type Speakers

- For computer case use
- Pretined solder lugs
- Anodized • Paper diaphragm


135781 front


135781 back

Part Number	Product Number	Dimensions Dia. (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Imp (Ω)	Output SPL (dB)	Freq. Range (Hz)	Magnet Size (Dia.xH) (mm/inch)	Net Wt. (lbs)	Price 1	Price 10	Price 100
111587	B0102	42 1.7	16 0.6	.1	.3	8	83	500 to 5500	13x10 0.5x0.4	.05	$1.75	$1.49	$1.25
135781	B0200	50 2.0	19 0.8	.2	.4	8	80	430 to 4000	13x10 0.5x0.4	.09	1.75	1.49	1.09

JAMECO 8Ω Oval Alnico Type Speaker

- For computer case use
- Paper diaphragm • Impedance: 8Ω
- For rectangular openings


Front


Back

Part Number	Product Number	Dimensions Dia. (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Output SPL (dB)	Freq. Range (Hz)	Magnet Size (Dia.xH) (mm/inch)	Net Wt. (lbs)	Price 1	Price 10	Price 100
135811	A1527C02	41x72 1.6x2.8	30 1.2	2	5	82	450 to 20000	13x12 0.5x0.5	.13	$2.95	$2.49	$2.25

JAMECO Samarium Cobalt Metal Frame Low Profile Speaker

- Round frame • Anodized
- Ultra thin • Solder tabs
- Paper diaphragm


Front


Back

Part Number	Product Number	Dimensions Dia. (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Imp (Ω)	Output SPL (dB)	Freq. Range (Hz)	Magnet Size (Dia.xH) (mm/inch)	Net Wt. (lbs)	Price 1	Price 10	Price 100
135626	MSC299	50 2.0	8.5 0.3	.3	.5	8	85	550 to 5000	12.5x1.5 0.5x0.6	.03	$2.95	$2.49	$2.25

JAMECO 8Ω 1.2" (30mm) P.C. Mountable Speaker

- Round frame design • Ideal for PC board mounting
- Impedance: 8Ω • Mylar diaphragm • Solder leads



Part Number	Product Number	Dimensions Diameter (mm) (inch)	Dimensions Height (mm) (inch)	Input Nom (W)	Input Max (W)	Output SPL (dB)	Freq. Range (Hz)	Pin Spacing (mm)	Net Wt. (lbs)	Price 1	Price 10	Price 100
135722	PCM41S	29.85 1.2	12.7 0.5	.150	.200	82	700 to 5000	15.0	.02	$1.95	$1.75	$1.25

24VDC Continuous Tubular Pull Solenoids

- Holding force: 3 lbs.
- Typical coil resistance: 131Ω
- Power: 8 watts
- 2" lead wires
- Size: 3.1"L x 1.0"Dia.
- Weight: 0.4 lbs.



Part No.	Description	1	10	50
128557	24VDC solenoid	$3.49	$2.95	$2.49

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12VDC Continuous Tubular Push/Pull Solenoids

- 12VDC nominal voltage continuous
- Life expectancy: 2,000,000 cycles



145314



142463



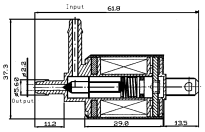
149761

Part No.	Type	Coil Res. (±10%)	Power Consum.	Holding Force (lbs. @ 20°C)	Wires (in.)	Size (ins.) (L x Dia.)	Shaft Dia. (in.)	Wt. (lbs.)	Pricing 1	10	50
145314	Push/pull	89Ω	2.0W	1.12	3.5	1.24 x .73	0.110	0.05	$7.95	$6.95	$6.25
142463	Pull	36Ω	4.0W	0.63	2.0	1.63 x .43	0.150	0.04	4.95	4.49	3.95
149753	Push	36Ω	4.0W	0.75	7.0	1.90 x .50	0.063	0.05	7.95	6.95	6.25
149761	Push	20.7Ω	7.0W	1.50	7.0	2.50 x .60	0.098	0.10	8.95	7.95	6.95

JAMECO 12VDC Solenoid Valve

- Operating voltage: 12VDC
- Current: 350mA
- Air leakage: 1c.c./min. max. 4psi
- Operational temperature: -29°C to 85°C
- 0.250" quick disconnect terminals
- Size: 1.2"L x 0.92"Dia.
- Weight: 0.2 lbs.





Part No.	Description	1	10	50
169834	Solenoid valve	$5.95	$5.35	$4.75

GUARDIAN 12VDC Continuous Push Solenoid

- Typical coil resistance: 42.8Ω
- Pushing force: 0.75 lbs.
- Terminals: 9.0" lead wires with male crimp pins
- Power: 3.4 watts
- Size: 2.0"L x 0.6"Dia.
- Weight: 0.1 lbs.



Part No.	Description	1	10	50
163803	12VDC solenoid	$3.95	$3.49	$2.75

Stepper Motors

GBM Bipolar and Unipolar Stepper Motors

NEMA Size 10, 17 and 22

- Bearing type: ball
- Dielectric strength: 500V 50Hz/minute
- 18" lead wires
- **173083/173091**: 14" lead wires
- Ambient temperature: -10°C to +55°C
- P/N 155459 is dual shaft
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998 (pg 72) for shaft coupler



NEMA 10 173083

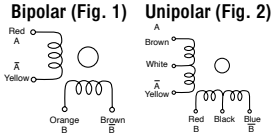


NEMA 17 155459



NEMA 22 162026

Bipolar (Fig. 1) Unipolar (Fig. 2)

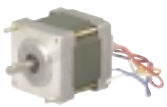


GBM is an ISO-9001 Certified Company

Part Number	Product Number	Fig.	Step Angle	No. of phases	Drive System	Voltage (VDC)	Phase resistance (Ohms)	Current (mA)	Phase Inductance (mH)	Detent torque (g-cm)	Holding torque (g-cm)	Mounting hole space diagonal (in.)	Mounting hole (in.)	Shaft diameter (in.)	Shaft length (in.)	Motor diameter (in.)	Motor height (in.)	Weight (lbs.)	Pricing 1	10	50
NEMA 10																					
173083	25BY2406	2	15	4	Unipolar	12	30Ω	400	7.5	48	120	1.3	0.13	0.08	0.36	1.0	0.5	0.1	$7.95	$6.95	$5.95
173091	25BY4803	2	7.5	4	Unipolar	12	50Ω	240	16	45	170	1.3	0.13	0.08	0.25	1.0	0.5	0.1	8.95	6.95	5.95
NEMA 17																					
155459	42BYG023	1	1.8°	2	Bipolar	12	30	400	36	220	2100	1.73	0.1	0.197	0.6	1.7	1.3	0.5	$14.95	$13.49	$10.95
172558	42BYG014	2	1.8°	4	Unipolar	8.4	19	450	13	<200	1350	1.73	0.1	0.197	0.9	1.7	1.2	0.4	14.95	12.49	11.49
172646	42BYG205	2	1.8°	4	Unipolar	9.6	75	480	15	<220	2300	1.73	0.1	0.197	0.9	1.7	1.4	0.5	13.95	12.49	10.95
175716	42BYG016	2	1.8°	4	Unipolar	12	75	160	55	<200	950	1.73	0.1	0.197	0.9	1.7	1.5	0.6	14.95	13.49	11.95
155432	42BYG228	2	1.8°	4	Unipolar	12	30	400	23	220	2000	1.73	0.1	0.197	0.9	1.7	1.5	0.5	14.95	13.49	11.95
NEMA 22																					
162034	57BYG085	1	1.8°	2	Bipolar	12	32	380	62	34	360	2.63	0.2	0.250	0.8	2.2	1.4	0.8	$19.95	$17.95	$15.95
172531	57BYG061	2	1.8°	4	Unipolar	2.25	1.0	2250	2	7.1	58.8	2.65	0.2	0.250	1.2	2.3	2.0	1.4	20.95	18.95	17.49
172523	57BYG071	2	1.8°	4	Unipolar	3.5	1.4	2.5	2.0	9.8	88.2	2.63	0.2	0.250	0.8	2.3	2.8	2.0	29.95	26.95	23.95
172540	57BYG059	2	1.8°	4	Unipolar	4	2.5	1600	3.5	7.1	58.8	2.65	0.2	0.250	1.2	2.2	2.8	1.3	20.95	18.95	17.49
162026	57BYG084	2	1.8°	4	Unipolar	12	20	600	22	72	600	2.65	0.2	0.250	1.0	2.2	2.0	1.3	24.95	20.95	18.95

Applied Motion 4.3VDC 1.8°/ Step Bi-Polar Stepper Motor

- No. of phases: 2
- Voltage: 4.3VDC
- Phase resistance: 3.4Ω
- Phase current: 1.2A
- Phase inductance: 4.6mH
- Detent torque: 144 g-cm
- Holding torque: 1800 g-cm
- Mounting hole space (diagonal): 1.74"
- Mounting hole dia.: .10"
- Shaft diameter: .196"
- Shaft length: .637"
- Motor diameter: 1.50"
- Motor height: 1.56"
- Weight: 0.5 lbs.



Part No.	Product No.	1	10	50
168840	5015-858	$9.95	$8.95	$7.25

Superior Electric 12VDC 1.8°/ Step Bi-Polar Stepper Motor

- No. of phases: 2
- Voltage: 12VDC
- Phase resistance: 9.7Ω
- Phase current: 1.0A
- Detent torque: 85 g-cm
- Holding torque: 625 g-cm
- Mounting hole space (diagonal): 1.72"
- Mounting hole diameter: .10"
- Shaft diameter: .196"
- Shaft length: 1.18"
- Motor diameter: 1.50"
- Motor height: 1.66"
- Weight: 0.7 lbs.



Part No.	Product No.	1	10	50
168831	SM2000050HL	$7.95	$6.95	$5.49

Nippon 7VDC 7.5° / Step Unipolar Stepper Motor

- No. of phases: 4
- Voltage: 7VDC
- Coil resistance: 50Ω
- Current: 550mA
- Phase inductance: 10mH
- Detent torque: 90 g-cm
- Holding torque: 750 g-cm
- Mounting hole space: 1.66"
- Mounting hole dia.: 0.100"
- Shaft size: .245"L x .08"Dia.
- Motor size: 1.37"Dia. x 0.51"H
- Weight: 0.2 lbs



Part No.	Product No.	1	10	50
169703	PF35T48H1	$3.95	$3.49	$2.95

Bipolar and Unipolar Stepper Motors

NMB

AIRPAX NIPPO

- Excellent for precision control
- Excellent torque/size ratio
- Can be operated in forward/reverse mode
- **163395/163408:** Dual shaft
- P/N 171601: Dual shaft w/ 10 tooth
- Wide variety of supply voltages


130112 (Fig. 1)


117954 (Fig. 2)


163395 (Fig. 3)


105881 (Fig. 4)


151861 (Fig. 5)

- P/N 25216 (IC, MC3479P – pg 9) biphase stepper motor driver can be used to operate P/N 105881 stepper motor
- See pages 90-97 for compatible power supplies
- P/N 105881/105873/105890; use P/N 161998 for shaft coupler (see page 72)

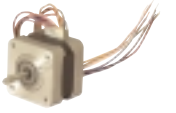
Part Number	Product Number	Fig.	Step Angle	No. of phases	Drive System	Voltage (VDC)	Phase resistance (Ohms)	Current (mA)	Phase Inductance (mH)	Detent torque (g-cm)	Holding torque (g-cm)	Mounting hole space diagonal (in.)	Mounting hole (in.)	Shaft diameter (in.)	Shaft length (in.)	Motor diameter (in.)	Motor height (in.)	Weight (lbs.)	Pricing 1	Pricing 10	Pricing 50
130112	23LQC202	1	5.0°	2	Bipolar	1.9	3	750	5	35	280	1.77	0.19	0.250	1.48	2.22	1.65	0.82	**$2.95**	**$2.49**	**$1.95**
174668	23LMC32908	1	1.8°	2	Bipolar	2.7	2	2000	3.5	360	4500	2.45	0.13	0.234	.85	2.23	1.88	1.05	**3.95**	**3.49**	**2.95**
117954	LB82773-M1	2	7.5°	2	Bipolar	5	6.25	800	7	100	1080	2.60	1.95	0.250	0.75	2.25	1.00	0.60	**3.49**	**2.95**	**2.49**
163395	5017-935	3	0.9°	2	Bipolar	8.4	30	280	25	36	791	1.73	0.15	0.155	0.29	1.64	1.20	0.53	**3.95**	**3.49**	**2.95**
163408	4017-806	3	1.8°	2	Bipolar	9.2	38	240	52	36	664	1.73	0.15	0.155	0.23	1.66	1.25	0.55	**3.95**	**3.49**	**2.95**
105881	SM4203	4	3.6°	2	Bipolar	12	25	480	31	80	600	1.73	0.11	0.197	0.43	1.66	1.31	0.51	**4.95**	**4.49**	**3.95**
151861	C42M048A04	5	7.5°	4	Unipolar	5	9.1	550	10	90	750	1.94	0.13	0.117	0.40	1.65	0.83	0.29	**4.49**	**3.95**	**2.95**
164056	M82101-P1	2	7.5°	3	Unipolar	5	20	255	5.3	20	18	1.4	0.13	0.078	0.35	1.00	0.46	0.08	**4.49**	**3.95**	**2.95**
172267	PF35T48041	2	7.5°	4	Unipolar	5	24	200	9	20	18	1.94	0.10	0.117	0.43	1.37	0.58	0.16	**3.95**	**3.49**	**2.95**
171601	PF35T48L4	2	3.6°	4	Unipolar	7	20	350	8.56	40	680	1.68	0.14	0.078	0.47	1.38	0.58	0.14	**3.95**	**3.49**	**2.95**
105873	SM4202	4	3.6°	4	Unipolar	12	75	150	43	80	504	1.73	0.11	0.197	0.43	1.66	1.32	0.53	**5.95**	**5.49**	**4.95**
105890	SM4200	4	3.6°	4	Unipolar	12	75	150	39	80	600	1.73	0.11	0.197	0.43	1.66	1.28	0.55	**5.95**	**5.49**	**4.95**
166705	PM42S-096	2	3.8°	4	Unipolar	12	84	140	16	60	450	1.95	0.13	0.117	0.40	1.66	1.64	0.18	**3.95**	**3.49**	**2.95**
172232	PF4248E189	2	5.0°	4	Unipolar	12	50	240	36	80	700	1.96	0.13	0.117	0.40	1.66	0.85	0.28	**4.95**	**4.49**	**3.95**
172241	PF4248E188	2	5.5°	4	Unipolar	12	50	240	33	40	750	1.97	0.13	0.117	0.40	1.66	0.85	0.30	**3.95**	**3.49**	**2.95**
172259	PF4248E186	2	5.8°	4	Unipolar	12	50	240	38	85	700	1.97	0.13	0.117	0.39	1.65	0.85	0.29	**4.95**	**4.49**	**3.95**
173497	STP42N148	4	7.5°	4	Unipolar	12	50	480	30	130	830	1.95	0.14	0.117	0.37	1.64	.87	0.24	**8.95**	**7.95**	**6.95**

NMB Bipolar and Unipolar Stepper Motors


175775


175741


174588


175759


174570


174553


174561

P/N 174617: w/ 27 tooth gear **P/N 174570:** w/ 15 tooth gear and fly wheel (1.12"Dia. x .107"T) **P/N 174561:** w/ 15 tooth gear and detachable bracket w/1:1:35 reduction gear

Part Number	Product Number	Step Angle	No. of phases	Drive System	Voltage (VDC)	Phase resistance (Ohms)	Current (mA)	Detent torque (g-cm)	Holding torque (g-cm)	Mounting hole space diagonal (in.)	Mounting hole (in.)	Shaft diameter (in.)	Shaft length (in.)	Motor diameter (in.)	Motor height (in.)	Weight (lbs.)	Pricing 1	Pricing 10	Pricing 50
175775	23LMC32903V	3.6	2	Bipolar	3.6	1.5Ω	2400	400	5000	2.65	0.194	0.250	0.748	2.23	1.74	1.61	**$8.95**	**$7.95**	**$6.95**
175741	16PMM015T20	1.8	2	Bipolar	5	46Ω	1200	200	600	1.74	0.09	0.196	0.238	1.54	1.14	0.32	**8.95**	**7.95**	**6.95**
174588	23LMK25502	1.8	2	Bipolar	6.5	40Ω	350	50	1000	2.65	0.197	0.250	0.948	2.23	1.64	0.83	**5.95**	**5.49**	**4.95**
174617	23LMC352G2	1.8	4	Unipolar	3.9	30Ω	130	26	520	2.64	0.123	0.250	0.742	2.23	1.81	1.10	**5.95**	**5.49**	**4.95**
175759	17PMM102V	1.8	4	Unipolar	5.5	20Ω	580	250	850	1.74	0.09	0.198	0.868	1.65	1.40	0.42	**8.95**	**7.95**	**6.95**
175783	23KMC703	1.8	4	Unipolar	12	32Ω	600	500	7000	2.64	0.197	0.250	0.756	2.23	2.44	1.60	**14.95**	**13.95**	**11.95**
174570	PM35L048HPM2	7.5	4	Unipolar	12	100Ω	120	60	1200	1.69	0.123	0.118	0.239	1.38	0.77	0.21	**4.95**	**4.49**	**3.95**
174553	PM55L048NBC7	7.5	4	Unipolar	12	20Ω	600	320	6400	2.58	0.09	0.157	0.340	2.20	0.85	0.58	**4.95**	**4.49**	**3.95**
174561	PM55L048XR04	7.5	4	Unipolar	24	10Ω	2400	960	15000	2.59	0.131	0.157	0.303	2.20	0.85	0.66	**5.95**	**4.95**	**4.49**

star motor 3VDC Miniature Motors

- Reversible
- Oil-impregnated bearing
- Terminal type: solder tabs
- High quality
- Voltage range: 1.5 – 3VDC
- Shaft diameter: 0.078"
- Use P/N 161998 for shaft coupler (see page 72)

Part Number	Product Number	Current (mA)	Stall Torque (g-cm)	RPM (max.)	Shaft Length (in.)	Size (Dia." x L")	Weight (lbs.)	Pricing 1	Pricing 10	Pricing 100
154915	ST-130-12240	70	24	5200	0.329	0.778 x 1.078	.047	**$.99**	**$.79**	**$.55**
154923	ST-130-22770	240	42	16000	0.305	0.779 x 1.140	.041	**.79**	**.65**	**.39**
154982	ST-280-2865	220	130	9500	0.412	0.945 x 1.335	.094	**.99**	**.79**	**.49**


154915


154923


154982

MITSUMI NMB 1.5-36VDC DC Motors

MABUCHI MOTOR
JOHNSON ELECTRIC

- Bronze bearings
- **173681:** • With eccentric gear
- **150666/176567:** • Shaft pulley type with 16 tooth configuration
- **171598:** • Shaft pulley type with ten tooth configuration • Pulley size: .298"W x .38"D


166676


151685


177498


171598


181411


153656


174991


181112


162579


173673


181964


173681


168436


170051

Part Number	Product Number	Manufacturer	Nominal Voltage	Voltage Range	Current (Amps)	Terminal Type	RPM (max)	Shaft Dia.	Shaft Length	Size D" x L"	Weight (lbs.)	Pricing 1	10	100
166676	FA130RA2270	Mabuchi Motor	1.5VDC	1.5V-3V	0.200	.07"/solder	9100	0.08"	0.30"	1.00 x 0.80	0.30	**$.99**	**$.79**	**$.49**
151685	RE280-2865	Mabuchi Motor	3.0VDC	1.5V-5V	0.155	.11"/solder	9200	0.08"	0.42"	1.00 x 1.20	0.10	**1.95**	**1.75**	**1.49**
177498	RC280RA-2485	Mabuchi Motor	4.5VDC	3V-14V	0.150	11"/solder	10300	0.08"	0.43"	0.95 x 1.20	0.10	**1.75**	**1.49**	**1.25**
171598	FF030PN	Mabuchi Motor	4.7VDC	3V-14V	0.045	2" wires	9800	0.06"	0.23"	0.61 x 0.73	0.03	**1.25**	**.99**	**.75**
181411	HC685G-61810	Johnson Electric	5.0VDC	3V-14V	0.047	.187"/solder	10000	0.13"	0.54"	1.40 x 1.98	0.33	**3.95**	**3.49**	**2.95**
153656	RS550PF	Mabuchi Motor	7.2VDC	4V-10V	1.400	.15"/solder	6500	0.13"	0.66"	1.45 x 2.25	0.49	**2.95**	**2.49**	**1.95**
174991	6424CL09WB20	NMB	10VDC	8V-12V	0.430	8" wires	4100	0.12"	0.64"	1.62 x 0.64	0.20	**2.25**	**1.95**	**1.75**
181112	M25N-2	Mitsumi	12VDC	5V-15V	0.018	11"/solder	3000	0.08"	0.26"	0.97 x 1.30	0.11	**1.25**	**.99**	**.75**
162579	TID20E	Operating Tech T&I	12VDC	9V-14V	0.025	.20"/solder	2150	0.12"	0.48"	1.48 x 1.42	0.19	**1.75**	**1.35**	**1.09**
173673	HC315MG	Johnson Electric	12VDC	9V-14V	0.670	.11"/solder	4600	0.09"	0.50"	1.14 x 1.37	0.16	**1.09**	**.89**	**.65**
181964	NF203G12	Johnson Electric	12VDC	9V-14V	0.030	.07"/solder	5000	0.08"	0.57"	0.95 x 1.20	0.10	**1.25**	**.99**	**.79**
173681	HC610F	Johnson Electric	12VDC	9V-14V	0.220	.187"/fast on	6600	0.12"	0.92"	1.40 x 1.80	0.40	**1.75**	**1.49**	**1.15**
168436	1911520YSP	Soho	12VDC	9V-14V	0.650	.187"/solder	1860	0.13"	0.52"	1.58 x 2.37	0.67	**2.95**	**2.49**	**1.95**
170051	KC613L	Johnson Electric	13VDC	9V-15V	0.250	.25"/fast on	6200	0.12"	0.75"	1.40 x 2.00	0.50	**1.95**	**1.75**	**1.49**
150666	HC675LG	Johnson Electric	24VDC	9V-30V	0.390	10.5" wires	4100	0.12"	0.38"	1.47 x 2.25	0.48	**1.09**	**.89**	**.59**
176567	HC675LGS	Johnson Electric	24VDC	9V-30V	0.390	10.5" wires	4100	0.13"	0.35"	1.47 x 2.07	0.48	**1.09**	**.89**	**.59**
166650	1635	Igarashi	36VDC	5V-50V	0.450	.187"/solder	6900	0.13"	0.67"	1.40 x 2.20	0.50	**1.49**	**1.25**	**.75**
174692	21226-384221	Johnson Electric	12VDC	9V-14V	0.015	.11"/solder	3000	0.08"	0.69"	.97 x 1.19	0.11	**1.25**	**.99**	**.79**


150666


176567


166650


174692

12/24VDC Reversible Gear Head Motors

- Solder type terminal
- High torque construction
- Oil bearing design for long service life
- Insulation resistance: 10MΩ
- Dielectric strength: 300VDC

HSIANG NENG

Now 24VDC Motors

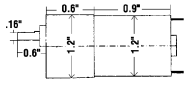

167038


159417

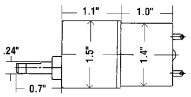

155011


155029

GH30GM Series



GH35GM Series



HN27GD Series

Part Number	Product Number	Rated Voltage	Operating Range (VDC)	No Load Current (mA)	No Load Speed (rpm)	Started Torque (KG/cm)	Motor Size Gear Ratio	Gear Size Dia. x L (in.)	Motor Size Dia. x L (in.)	Shaft Size Dia. x L (in.)	Wt. (lbs.)	Pricing 1	10	25
167038	GH12-0953Y	12	4.5 – 24	45	14	1.2	188:1	1.0 x 0.9	1.1 x 0.8	.16 x .45	0.2	**$14.95**	**$12.95**	**$10.95**
167046	GH12-1828Y	12	4.5 – 24	95	37	1.3	90:1	1.2 x 1.3	1.1 x 0.8	.16 x .45	0.2	**18.95**	**16.95**	**14.95**
174342	GH12-1825Y	12	6.0 – 24	65	97	.40	43:1	1.1 x 1.0	1.1 x 0.8	.16 x .45	0.2	**19.95**	**17.95**	**14.95**

GH30GM Series

170641	GH12-1828Y-10	12	6.0 – 24	45	10	3.50	332:1	1.1 x 1.1	1.2 x 0.6	.16 x .60	0.3	**$19.95**	**$17.95**	**$15.95**
153437	GH12-1045Y	12	3.0 – 12	35	15	0.80	200:1	1.2 x 0.9	1.2 x 0.6	.16 x .60	0.1	**14.95**	**13.49**	**11.95**
159417	GH12-1921Y	12	4.5 – 12	150	42	8	132:1	1.2 x 0.9	1.2 x 0.6	.16 x .60	0.3	**17.95**	**14.49**	**12.95**
162190	GH12-1324Y225	12	4.5 – 12	65	225	0.70	30:1	1.2 x 0.9	1.2 x 0.6	.16 x .60	0.1	**14.95**	**12.49**	**10.95**

GH35GM Series

155011	GH12-1926	12	4.5 – 12	55	2	15	3000:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**$19.95**	**$17.95**	**$14.95**
155820	GH12-1830Y-P	12	4.5 – 12	50	4.5	13	1000:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**16.49**	**14.95**
155838	GH12-1641T-L	12	3.0 – 12	65	20	10	270:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**16.49**	**14.49**
152910	GH12-1926Y	12	4.5 – 12	48	44	11.8	100:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.4	**19.95**	**17.95**	**15.95**
155846	GH12-1641T-I	12	3.0 – 12	65	51	8	100:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**14.95**	**12.95**	**11.49**
151440	GH12-1632TI	12	4.5 – 12	75	69	11	100:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**16.49**	**14.49**
155854	GH12-1641T-F	12	3.0 – 12	65	87	7	60:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**16.49**	**14.49**
155862	GH12-1926Y-F	12	4.5 – 12	60	100	5	60:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**17.95**	**14.95**
161373	GH12-1345T	12	4.5 – 12	69	150	3	30:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**16.49**	**14.49**
161381	GH12-1634T	12	4.5 – 12	111	200	3.6	30:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**17.95**	**14.95**
164785	GH12-1640Y	12	4.5 – 24	45	300	.76	10:1	1.4 x 1.0	1.5 x 1.1	.24 x .70	0.3	**19.95**	**17.95**	**14.95**
176049	GH12-1640Y00	24	12 – 24	140	2	6	3000:1	1.3 x 1.0	1.5 x 1.1	.24 x .70	0.4	**19.95**	**17.95**	**15.95**
176031	GH24-1640Y06	24	12 – 24	140	65	2	90:1	1.3 x 1.0	1.4 x 0.7	.24 x .70	0.3	**19.95**	**17.95**	**15.95**
176014	GH24-1640Y11	24	12 – 24	140	116	1.50	50:1	1.3 x 1.0	1.5 x 0.6	.24 x .70	0.3	**19.95**	**17.95**	**15.95**
176022	GH24-1640Y19	24	12 – 24	140	193	1.0	30:1	1.3 x 1.0	1.5 x 0.7	.24 x .70	0.3	**19.95**	**17.95**	**15.95**

12VDC Motor (No Gear)

155029	HN12-1641T	12	3.0 – 12	50	5200	0.24	No gear	1.3 x 0.9	N/A	.78 x .34	0.1	**$4.49**	**$3.75**	**$3.25**

GBM 12VDC Unipolar 0.9˚/ Step Geared Stepper Motor

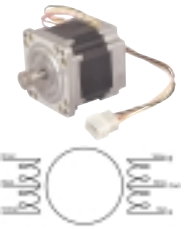


- Voltage: 12VDC
- Coil resistance: 200Ω
- Current: 60mA
- Ratio: 1/40
- 7.5˚/ step stepper motor
- Detent torque: 400 g-cm
- Holding torque: 400 g-cm
- Mounting space: 1.55"
- Mounting hole: 0.16" • Shaft size: 0.316"L x 0.197"Dia.
- Motor size: 1.18"Dia. x 0.675"H • Weight: 0.1 lbs.

Part No.	Product No.	1	10	50
173180	30BYJ02AH	$9.95	$8.95	$7.95

Shinano Kenshi 24VDC Unipolar Stepper Motor

1.8˚/Step



- No. of phases: 4
- Current: 160mA
- Phase resistance: 81Ω
- Phase inductance: 68mH
- Detent torque: 80 g-cm
- Holding Torque: 600 g-cm
- Diagonal mounting hole space: 2.65"
- Mounting hole diameter: 0.18"
- Shaft diameter: 0.25" • Shaft length: 0.75"
- Motor diameter: 2.2" • Motor height: 2.1"
- Lead wire: 12"L • Weight: 1.4 lbs.

Part No.	Product No.	1	10	50
169201	STP57D317	$8.95	$7.95	$6.95

AIRPAX 12V Unipolar Linear Stepper Motor

.003" / Step



- Operating voltage: 12VDC
- 325 steps maximum both directions
- Distance travel / step: .003"
- 11" lead wires
- Shaft size: contracted .077"Dia. x 0.14"L extended .077"Dia. x 1.09"L
- Motor size: 1.86"Dia. x 0.92"L
- Shaft travel: 0.95" total • Weight: 0.4 lbs.

Part No.	Product No.	1	10	50
162587	A92218M	$7.95	$6.95	$6.25

24VAC/VDC Motor With Gearbox

Synchronous / Bipolar Stepper



- Power requirements: 24VAC@50/60Hz (for synchronous motor operation)/24VDC (for stepper motor operation)
- 20 rpm (as synchronous motor)
- 0.5 degree step angle (as stepper motor)
- Size: (motor) 1.86"Dia. x 1.0"L
- Size: (gearbox) 2.1"Dia x 0.7"L • Weight: 0.8 lbs.

Part No.	Description	1	10	50
176364	Motor w/ gearbox	$24.95	$22.49	$19.95

12VDC Motor with Gear Reduction



- Input voltage: 12VDC
- RPM (on gear reduction unit): 8rpm
- Torque: 34.56kg cm
- Size: (motor) 1.1"Dia. x 1.5"L
- Size: (shaft on gear): 1.1"L x 0.3"Dia.
- Size: (gear) 3.6"L x 2.4"W x 1.1"H • Weight: 1.1 lbs.

Part No.	Description	1	10	50
177501	12VDC w/ gear	$19.95	$17.95	$15.95

Seiko Epson 7.2VDC Unipolar Stepper Motor

7.5˚ / Step



- No. of phases: 4
- Coil resistance: 30Ω
- Voltage: 7.2VDC
- Current: 550mA
- Phase inductance: 10mH
- Detent torque: 90 g-cm • Holding torque: 750 g-cm
- Shaft size: 2.53"L x .08"Dia.
- Mounting hole space: 1.67" • Mounting hole dia.: .100"
- Motor size: 1.38"Dia. x 0.5"H • Weight: 0.2 lbs.

Part No.	Product No.	1	10	50
169711	780387	3.95	$3.49	$2.95

JOHNSON ELECTRIC 12VDC Motor

2,100 rpm @ 11mA



- Operating range: 5 – 15VDC
- Operating voltage: 12VDC
- Torque at max. efficiency: 19 g-cm • Shaft size: 0.08"Dia. x 0.72"L
- Weight: 0.2 lbs. • Motor size: 1.2"L x 1.0"Dia.

Part No.	Product No.	1	10	100
169471	PC2001G	$.75	$.59	$.45

JOHNSON ELECTRIC 12VDC Motor

15,900 rpm @ 1.38A



- Rated voltage: 12VDC
- Torque @ max. output power: 1800 g-cm
- Stall torque: 3601 g-cm
- Shaft size: .21"Dia. x .48"L • 0.186" fast on terminals
- Motor size: 1.64"Dia x .2.15"L • Weight: 0.7 lbs.

Part No.	Product No.	1	10	100
169480	HC713-7315	$2.49	$1.95	$1.49

GBM 7.2VDC Motors



169447

- Rated voltage: 7.2V
- .110" fast on terminals
- Motor size: 1.4"Dia. x 2.25"L
- Weight: 0.5 lbs.

169447: 10,700 rpm @ 1.1A

- Operating range: 3 to 12 VDC
- Torque: 409 g-cm • Started torque: 3242 g/cm
- Shaft size: .125"Dia. x .46"L

169439: 14,500 rpm @ 1.6A

- Operating range: 3.6 to 9.6 volts
- Torque: 380 g-cm • Started torque: 2895 g/cm
- Shaft size: .125"Dia. x .44"L

Part No.	Product No.	1	10	100
169447	36ZY50SH6530	$4.49	$3.95	$3.49
169439	36ZY50SH7522	4.95	4.49	3.95

JAMECO 1.3VDC Vibrating Motor

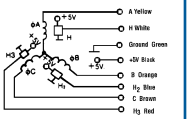


- Typical applications: cellular phones, pagers, and toys
- Operating voltage: 1.3VDC@62mA
- Operating voltage range: 0.7VDC ~ 1.6VDC (max.)
- Rated RPM: 7000rpm@1.3VDC
- Stall current: 112mA@1.3VDC • Lead length: 0.7"
- Size: (motor) 0.67"L x 0.28"Diameter
- Size: (shaft) 0.18"L x 0.10" Diameter

Part No.	Description	1	10	100
175062	Vibrating motor	$3.95	$3.49	$2.95

GBM 12VDC Servo Motor





- **Rated voltage: 12VDC**
- Number of phases: 3
- Rated current: 400mA
- Rated speed: 2760 rpm
- Rated torque: 97.5 g-cm
- Rated power: 2.6 watts
- Size: 1.05"H x 1.33"Dia.
- Shaft size: 0.34"L x 0.16"Dia.
- Weight 0.2 lbs.

Part No.	Product No.	1	10
167097	34SW002-2	$9.95	$8.95

TimeTech 120VAC Gear Motor

4.8 rpm – 3.5 Watt

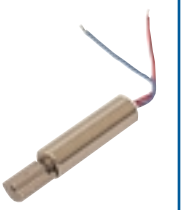


- Operating voltage: 120VAC @ 60Hz
- No load current: 25mA
- 4.8 revolutions per minute
- Terminals: 0.19"
- Screw down tabs for mounting
- Shaft diameter: 0.27"
- Shaft length: 0.32"
- Overall size: 2.0"Dia. x 0.8"Thick • UL approved

Part No.	Product No.	Description	1	10	50
160987	S430	Gear motor	$3.95	$3.49	$2.49

JAMECO 1.3VDC Vibrating Motor

Typical applications:



- Cellular phones, pages and small toys
- Operating voltage: 1.3V@65mA (typical)
- Rated RPM: 8500@1.3VDC
- Direction of rotation: clock wise
- Lead length: 0.75"
- Size: (motor) 0.55"L x 0.16"diameter
- Size: (shaft) 0.23"L x 0.15"diameter

Part No.	Description	1	10	100
175396	Vibrating motor	$5.95	$5.35	$4.79

JAMECO 6VDC Air Pump



- RPM (motor): 5000rpm
- Power requirements: 6VDC@125mA
- Max air pressure: 1 psi
- Tube size: 0.33" outside diameter
- Inlet tube: 1.99" outside diameter
- Outlet tube: 0.246" outside diameter
- Size: (motor) 1.0"Dia x 1.3"L • Weight: 0.2 lbs.

Part No.	Description	1	10	50
176321	Air pump	$14.95	$13.49	$11.95

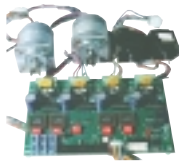
JAMECO 110VAC Air Pump



- Input voltage: 110VAC @ 50Hz
- Input wattage: 9 watts
- Normal pressure: 1.42psi
- Air flow (L/min): 8
- Noise level: 27dB
- Closed pressure: 2.6psi
- Size: 5.7"L x 5.0"W x 3.4"H
- Weight: 5.6 lbs.

Part No.	Product No.	1	10	50
177543	DB8L	$69.95	$62.95	$56.95

RMV electronics inc Multi Stepper Motor Control Board



Shown w/ motors – not included

- Simultaneous/independent control of up to 16 stepper motors through a single serial port
- 24-bit position register, can be read while motor is moving
- Linear acceleration/deceleration capability, up to 8500 step/sec.
- Full step (monophasic and biphasic), half step and external driver modes
- Current mode driver, drives coils up to 2A/45V
- Automatic power down prevents motor overheating
- External driver control outputs: step, direction and power control
- 26 digital I/O and two SPI interfaces for control of external devices
- 32 bits DDL interface for Windows® 9X, NT & Linux
- Internal FIFO RAM (128 bytes) allows customized motion profiles
- High speed serial communication interface 9600-230400 baud • 11 analog channels, AD converter 10 or 12 bits resolution
- Size: 7.7"L x 5.0"W x 1.0"H • Weight: 0.7 lbs.

Part No.	Description	1	5
168727	Stepper motor control brd...	$389.95	$369.95

PONTECH 32-Bit Stepper Motor Controller

One Axis



- Controls one bipolar stepper motor with 32-bit absolute position
- Interface to PC through RS232 or RS485 @ 2400-19200 bps
- Multiple boards may share same serial line (RS485 only) • Addressable up to 255 boards
- 2 channel general purpose 8-bit A/D input port for reading 0 to 5V • 4-bit digital input for home limits
- Full, half or wave step modes
- Includes user's manual and sample code software
- Size: 4.4"L x 2.3"H • Weight: 0.7 lbs.

Part No.	Description	1	5
153621	32-bit controller.....	$159.95	$149.95

Scott Edwards Mini SSC II Module (Serial Servo Controller)



- Controls 8 pulse-proportional servos
- Receives serially at 2400 or 9600 baud
- Module is addressable thus allowing two units to share the same line to control a total of 16 servos
- Connections to serial input can be established using a modular jack (P/N 115553) or modular adapter from DE9 to RJ11 (P/N 114737) – pg 168
- Size (PCB): 1.9"L x 1.4"W
- Weight: 0.08 lbs. • One year warranty

Part No.	Description	1	5
151001	Serial servo controller module	$49.95	$42.95

PONTECH Servo Motor Controller Board (8K EEPROM)

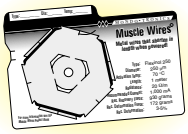


- Controls 1 to 8 servos per board, 8-bit precision • Power supply: 4.8V to 6.0V
- Servo port can be reconfigured for digital output to drive on/off devices
- Source/sink: 25mA per pin • Interface to PC through RS232 port @ 2400-19200 bps
- Multiple boards may share same serial line • 8K EEPROM
- 5 channel, 8-bit A/D input port for reading 0 to 5V
- IR-receiver and transmitter feature • Includes user's manual, supplement and sample code software
- Size: 1.7"L x 1.4"W (main board); 1.1"L x 0.9"W (infrared board) • Weight: 0.5 lbs.

Part No.	Description	1	5
153648	Servo motor controller board	$84.95	$79.95

MONDO•TRONICS Muscle Wire® and Accessories

Muscle Wires®

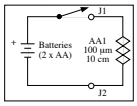


These unique nickel-titanium alloy Muscle Wires® actually shorten in length when electrically powered, and can lift thousands of times their own weight. • Weight: 0.04 lbs.

* ***Multiply by 0.0098 to get force in Newtons***

** ***Cycles per minute, in still air, at 20˚ Centigrade***

How it works… *Pressing the switch lets power flow from the batteries through the Muscle Wire®, heating it and causing it to contract and raise the lever and lift the weight. When power is removed, the Muscle Wire® cools and relaxes, and the weight helps it return to its starting position.*





Part No.	Description	Wire Diameter (microns)	Linear Resistance (ohm/m)	Typical Current (mA)	Deform Weight* (grams)	Recovery Weight* (grams)	Typical Rate**	Length (meters)	1	5
160063	Flexinol 037LT	37	860	30	4	20	52	1	$9.95	$8.95
141882	Flexinol 050LT	50	510	50	8	35	46	1	9.95	8.95
141321	Flexinol 100LT	100	150	180	28	150	33	1	9.95	8.95
141874	Flexinol 150LT	150	50	400	62	330	20	1	9.95	8.95
160055	Flexinol 375LT	375	8	2750	393	2000	4	1	14.95	13.45

Electric Pistons™ (Deluxe 5-Pack)



The Electric Piston is a shape memory alloy actuator that pulls with up to one pound of force and contracts by 20mm. Typical activation requires just one volt at five amps for two seconds. Plus, mount several pistons in parallel for more strength, and in series for longer strokes.

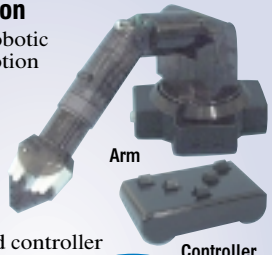


- Pack includes five pistons, battery, leads and plans for four complete projects • 1 volt @ 5 amps • Weight: 0.3 lbs.

Part No.	Description	1	5
141903	Electric piston pack.....	$39.95	$34.95

OWI Robotic Arm Trainer Kit

Five Axis of Motion



Teaches the basic robotic sensing and locomotion principles while testing your motor skills as you build and control the arm. This unit can be commanded or instructed through its five switch wired controller with lights to grab, release, lift, lower, rotate wrist, and pivot sideways. Five motors and joints allow flexibility.

109 pc. Kit

Controller 157366



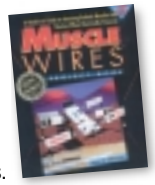
159345

- Advanced level
- Max. length outwards: 14.2"
- Max. height upwards: 20.1"
- Max. lifting capacity: 4.6 oz.
- Shoulder movement @ 120˚
- Elbow moving range @ 135˚
- Wrist rotation clockwise or counter clockwise @ 340˚
- Grip opens to 2" wide • Weight: 4.5 lbs.
- Rotates left to right at the base @ 350˚
- Requires 4 D batteries (not included)

Build It Yourself!

Part No.	Description	1	5
157366	Robotic arm kit.....	$69.95	$62.95
159345	Robotic controller software ..	79.95	69.95

Muscle Wires® Project Book



Get the facts behind the unusual properties of Muscle Wires®. Study their uses in heat engines, industrial, medical and aerospace applications, electronic and mechanical devices, prosthetic limbs, robotics, virtual reality systems, and more! • Weight: 0.7 lbs.

Part No.	Description	1	5
141330	Muscle Wires® Book.....	$17.95	$15.95

Muscle Wires® Book & Deluxe Kit

- Includes (1) each Flexinol 037, 050, 100, 150 and 250 (see above), and Project Book (see above)
- Includes crimps and instructions • 5 meters of wire

Part No.	Description	1	5
141348	Muscle Wires® kit.....	$59.95	$53.95

Modulated Infrared Reflective Detector



- Operating voltage: 5VDC
- Detects objects up to several inches away
- Modulated signal reduces response to ambient infrared noise
- Size: 0.9"L x 0.8"W x 0.4"T • Weight: 0.2 lbs.

Part No.	Description	1	5
163221	Modulated detector.....	$22.95	$19.95

Space Wings Kit

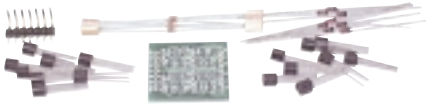


Sleek silvery mylar wings flap silently using only five centimeters of Muscle Wire®. Stands 15 cm tall and flaps up to 36 times per minute. "No, it really doesn't fly." Includes a printed circuit board, parts and detailed instructions.

- Assembly requires soldering iron, solder, screwdriver, wire cutters and two AA batteries (not included) • Weight: 0.06 lbs.

Part No.	Description	1	5
141313	Space wings kit.....	$19.95	$17.95

Mini Dual H-Bridge Driver Kit



- Uses standard 5V logic level inputs
- Provides up to 300mA per motor
- Inputs use less than 1mA
- Size: 0.9"L x 0.8"W x 0.4"T • Weight: 0.2 lbs.

Part No.	Description	1	5
160047	Mini dual H-bridge driver kit	$24.95	$22.49

HS-303 Robotic Servo



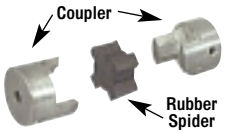
Excellent power to weight ratio for robotic projects.

- Supply voltage: 4.8-6 volts
- Power: 49"/oz. (4.8V)
- Speed: 16 sec. to 60˚
- Can be operated by P/Ns 153648, 151001 (pg 71) and 157059 (right)
- Size: 0.8"W x 1.4"D x 1.6"H • Weight: 0.1 lbs.

Part No.	Product No.	Description	1	10
157067	14500	Robotic servo	$19.95	$17.95

JAMECO® Spider Couplers

(For Motors)



- 1 set screw/hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Hub weight: 0.02 lbs.
- Parts sold individually

162288 (Coupler) 162000 (Spider)

Part No.	Description	1	10	100
162288	.125" (3.18 mm) hub	$1.15	$.89	$.59
161998	.197" (5.00 mm) hub	.99	.79	.59
162270	.250" (6.35 mm) hub	.99	.79	.59
162000	Rubber spider	.89	.69	.55

Climax Spider Shaft Couplers

(For Motors)



106614 106606 106622

106614/106606:

- 1 set screw/hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Weight: 0.02 lbs.



138288

138288: • 2 set screws (10-32 x 1/8)
• OD: 1/2" • Length: 0.75" • Wt.: 0.03 lbs.

Part No.	Description	1	10	100
106614	.125" spider hub	$.75	$.55	$.39
106606	.250" spider hub	.89	.69	.45
106622	Rubber spider	.75	.55	.39
138288	250" sleeve coupler	3.95	3.49	2.95

Universal Joint Shaft Couplers

Single Joint with 3mm Set Screws

Can be used to connect two shafts whose axis are misaligned. It can also be used where the angle varies during rotation.



163571

- Material: mild steel
- Set screws: 3mm (2)
- Size: 1.5"L x 0.5"Dia.
- Weight: 0.06 lbs.

Part No.	Description	1	10
163678	0.197" (5.00mm)	$9.95	$8.95
163571	0.240" (6.00mm)	9.95	8.95

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www.jameco.com

Micro Robotic Servo



Perfect size for any micro robotic project such as robotic fingers or pincers.

- Power supply voltage: 4.8-6 volts
- Power: 38 oz/in.
- Speed: 10 sec. to 60˚
- Can be operated by P/Ns 153648, 151001 (pg 71) and 157059 (right) • Size: 1.2"L x 0.48"W x 1.2"H

Part No.	Description	1	5
166369	Micro Robotic Servo	$39.95	$34.95

Giant Robotic Ball Bearing Servo



Extremely powerful! Perfect for large robotic projects where power is a must.

- Power supply voltage: 4.8-6 volts
- Power: 161 oz/in.
- Speed .19 sec. to 60˚
- Can be operated by P/Ns 153648, 151001 (pg 71) and 157059 (right)

Part No.	Description	1	5
166351	Giant robotic servo	$49.95	$44.95

Digital Proportional Radio Control System



- 75MHz • 1/4 mile range
- 2 channel proportional operation
- HP-2RNB mini AM receiver
- 2 HS-303 standard servos
- Requires 12 AA batteries
- Size: 6.0"L x 5.5"W x 2.0"H
- Weight: 1.5 lbs.

Part No.	Product No.	Description	1	5
157059	11007	Challenger 250	$79.95	$69.95

2.5" Robot Drive Wheels



- Extremely high traction foam rubber compound
- For surface use only
- Hubs (2): Set screw locking (1); Non-locking (1)
- Size: 2.5"Dia. x 2.0"W • Weight: 0.19 lbs.

Part No.	Product No.	Description	1	5
157227	40035	Drive wheels (2)	$29.95	$26.95

8 Pitch Gears and 6 Piece Gear Set



162392



162093



131801

- Works with DC motors with 0.08" shaft diameter
- Heavy-duty plastic construction • Pitch: 0.125"
- Bore size: 0.154" • Material: polyethylene resin
- **162392:** 0.15" bore to 0.070" bore

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Product No.	Description	Shaft Bore	O.D.	Press Fit Shaft Dia.	Gear Dia.	1	10	100
162069	T10	10 teeth	0.151"	0.48"	0.156 (5/32)"	0.457"	$.89	$.69	$.55
162077	T20	20 teeth	0.151"	0.875"	0.156 (5/32)"	0.855"	.79	.65	.49
162085	T30	30 teeth	0.151"	1.27"	0.156 (5/32)"	1.239"	.79	.65	.49
162093	T40	40 teeth	0.151"	1.67"	0.156 (5/32)"	1.634"	.79	.65	.49
162106	T50	50 teeth	0.151"	2.07"	0.156 (5/32)"	2.016"	.79	.65	.49
162392	BUSH1	Bushing	0.075"	—	0.078 (5/64)"	0.160"	✳	.12	.08
Part No.	Product No.	Description					1	10	50
131801	GA1	6 pc. 8 pitch gear set (one each of above items)					$4.95	$4.49	$3.95

16 Pitch Sprockets, Chain and 14 Piece Sprocket Set

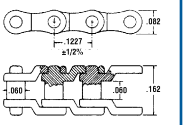


157083 157091 157075

- Chemical resistance • Precision molded
- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length • Material: Dupont Delrin 500
- Temperature range: -40˚F to 180˚F
- Chain tension load: 2.0 lbs.



168276



157075

P/N 168276 • **Sprocket set** includes one each of the following: 8, 9, 10 teeth at 1/8" bore size; 12, 15, 16, 18, 20, 24, 30, 32, 36, 40 and 48 teeth at 1/4" bore size • 14 piece set • Weight: 0.04 lbs.

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
157083	S092	9 teeth sprocket, 1/8" bore, press fit drive	.003	$1.75	$1.49	$1.25
157091	S204	20 teeth sprocket, 1/4" bore, press fit	.006	2.25	1.95	1.75
157075	C1227	Drive chain (12"L)	.009	9.95	8.95	7.95
168276	8890	Sprocket set - 14 pieces (see description above)	.037	24.95	20.95	18.95

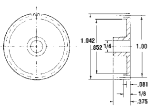
48 Pitch Gears, Hub and 12 Piece Gear Set



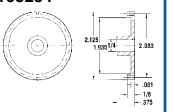
157147 157155 157104 168284

- Material: Dupont Delrin 500
- Temp. range: -40˚F to 180˚F
- Low coefficient of friction requires little or no lubrication
- Meets full depth involute tooth industry standards
- Residual stress removed by annealing process
- Corrosion resistance • Precision molded

157147



157155



P/N 168284 • **Gear set** includes one each of the following: 10 teeth at 3/32" bore size; 14 and 16 teeth at 1/8" bore size; 20, 24, 30, 36, 44, 54, 66, 84 and 100 teeth at 1/4" bore size • 12 piece set • Weight: 0.06 lbs.

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
157147	GF484	48 teeth, 1/4" bore, press fit gear	.009	$3.95	$3.49	$2.95
157155	GF1004	100 teeth, 1/4" bore, press fit gear	.019	4.95	4.49	3.95
157104	9999	1/4" bore aluminum mounting hub w/ set screws	.025	3.95	3.49	2.95
168284	8892	Gear set - 12 pieces (see description above)	.056	39.95	34.95	31.95

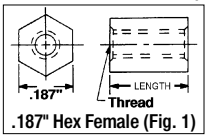

.187"/ .250" Hex Female

Aluminum & Brass Threaded Standoffs

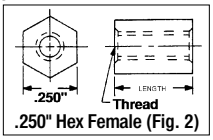
† Finish: Iridite (clear)[1] per MIL-C-5541-D; zinc plate[2]; bright tin plate[3]; stainless steel[4]

✳ Prepackaged: order in increments of 10, 100 or 1000

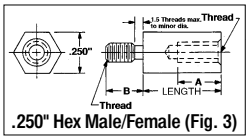

Hex
.250" Male/Female



.187" Hex Female (Fig. 1)



.250" Hex Female (Fig. 2)



.250" Hex Male/Female (Fig. 3)

.187" Hex Threaded Female Standoffs

4-40 Thread (Fig. 1) .187" Hex

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
175636	Brass[3]	.187"	✳	$.15	$.12	$.06
133612	Alum[1]	.250"	✳	.17	.14	.10
133639	Alum[1]	.500"	✳	.19	.15	.12
139791	Alum[1]	.562"	✳	.15	.09	.05
133647	Alum[1]	.625"	✳	.25	.19	.15
133655	Alum[1]	.750"	✳	.35	.29	.22
139184	Alum[1]	1.000"	.35	.29	.22	.17

.250" Hex Threaded Female Standoffs

4-40 Thread (Fig. 2) .250" Hex

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
139192	Alum[1]	.250"	✳	$.15	$.12	$.09
77500	Alum[1]	.375"	✳	.17	.14	.11
134762	Alum[1]	.437"	✳	.15	.12	.09
108370	Alum[1]	.500"	✳	.19	.15	.12
77518	Alum[1]	.625"	✳	.25	.19	.15
133604	Alum[1]	.750"	✳	.25	.19	.15
139205	Alum[1]	1.000"	.35	.29	.25	.19

.250" Hex Threaded Female Standoffs

6-32 Thread (Fig. 2) .250" Hex

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
77534	Alum[1]	.250"	✳	$.17	$.14	$.11
133591	Alum[1]	.375"	✳	.17	.14	.11
77542	Alum[1]	.500"	✳	.19	.15	.12
77551	Alum[1]	.625"	✳	.22	.17	.12
77569	Alum[1]	.750"	✳	.25	.19	.15
77577	Alum[1]	1.000"	.35	.29	.25	.17
143407	Alum[1]	1.500"	.49	.39	.32	.27
143440	Alum[1]	1.750"	.49	.39	.32	.27
175644	Alum[1]	4.000"	.75	.59	.45	.35

.250" Round Hinged Threaded Standoffs

6-32 Thread (both ends)

Male/Male

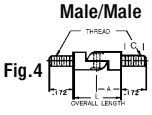


Fig.4

Female/Female

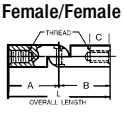


Fig.5

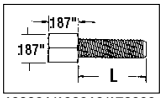

143520

Part No.	Type	L	A	B	C
166908	Male/Male	.500"	.312"	—	.172"
143520	Female/Female	.750"	.371"	.371"	.251"
166895	Female/Female	1.000"	.625"	.250"	.251"

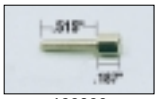
Part Number	Metal†	Fig	Overall Length	Pricing 1	10	100
166908	Brass[3]	4	.500"	$.65	$.55	$.45
143520	Brass[3]	5	.750"	.89	.69	.59
166895	Brass[3]	5	1.000"	.69	.59	.49

.187 Hex Threaded Male/Female Standoff

4-40 x .187" Jack Screws and Hex Nut



169931/102816/172603



108986



102795

Part No.	Description (Brass[3])	1	10	100	1000
169931	.275"L jack screws	✳	$.16	$.12	$.09
172603	.315"L jack screws	✳	.13	.09	.05
102816	.435"L jack screws	✳	.17	.13	.10
108986	.515"L jack screws	✳	.19	.14	.11
175636	.187"L hex nuts	✳	.15	.12	.06
102795★	.240"L hex nuts	✳	.17	.12	.06

.250" Hex Threaded Male/Female Standoffs

4-40 Thread (Fig. 3) (Thread A: 0.250"; B: 0.187")

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
77585	Alum[1]	.250"	✳	$.22	$.17	$.14
77593	Alum[1]	.375"	✳	.25	.19	.15
111755	Alum[1]	.500"	✳	.27	.22	.17
175628	Steel[4]	.580"	✳	.19	.15	.12
139213	Alum[1]	.625"	✳	.29	.25	.19
139221	Alum[1]	.750"	✳	.29	.25	.17
139230	Alum[1]	1.000"	.39	.32	.25	.19
128565	Alum[1]	1.234"	.39	.29	.19	.15
166545	Alum[1]	1.500"	.59	.49	.39	.35

.250" Hex Threaded Male/Female Standoffs

6-32 Thread (Fig. 3) (Thread A: 0.375"; B: 0.250")

Part Number	Metal†	Hex Length	Pricing 1	10	100	1000
133541	Alum[1]	.250"	✳	$.25	$.19	$.15
133567	Alum[1]	.375"	✳	.25	.19	.15
77606	Alum[1]	.500"	✳	.25	.19	.15
77622	Alum[1]	.750"	✳	.27	.22	.17
77649	Alum[1]	1.000"	✳	.29	.25	.19

.250" Hex Threaded Male/Female Standoffs

8-32 Thread (Fig. 3) (Thread A: 0.437"; B: .375")

Part Number	Metal†	Hex Length	Pricing 10	100	1000
143491	Alum[2]	.250" ✳	$.15	$.10	$.06
143503	Alum[2]	.375" ✳	.15	.12	.08
143511	Alum[1]	.500" ✳	.25	.19	.15

External Threaded Handle

1/4" Round / 90˚ Freefall

- Aluminum
- Black anodized
- 90˚ free fall
- Requires (2) ¼" – 28 nuts
- Size: 0.25" Dia. x 3.0"L x 1.46"H
- Weight: 0.04 lbs.

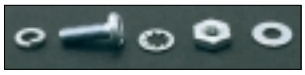


Part No.	Description	1	10	100
180638	Threaded handle	$7.95	$6.95	$6.25

SAE and Metric Hardware

- Zinc-plated steel

† With star washer



Prepackaged: order in increments of 100 or 1000

Slotted Pan Head Machine Screws

Part Number	Screw Size	Thread	Length (inches)	100 pcs. min. 100	1000
38172	2-56	Std	.25	$.036	$.024
40951	4-40	Std	.25	.016	.012
40969	4-40	Std	.375	.016	.012
106809	4-40	Std	.50	.016	.012
171942†	M3	Fine	6mm	.01	.006
106542	6-32	Std	.25	.02	.013
42446	6-32	Std	.375	.024	.016
42438	6-32	Std	.50	.024	.016
143634	8-32	Std	.25	.012	.009
106817	8-32	Std	.375	.04	.024
106796	8-32	Std	.50	.04	.024

Hex & Wing Nuts 171205



Part Number	Screw Size	Thread	Length (inches)	100	1000
38164	2-56	Std	.183	$.03	$.018
40942	4-40	Std	.243	.016	.012
172620	M3	Fine	6mm	.013	.009
42420	6-32	Std	.306	.02	.013
51553	8-32	Std	.334	.03	.018
171205	8-32	Std	Wing	.05	.025

Flat Washers

106825	4	.281	$.024	$.016
106833	6	.373	.03	.018
106841	8	.377	.03	.018

Internal Tooth Lock Washers

106850	4	.258	$.016	$.012
106868	6	.277	.02	.013
106876	8	.323	.024	.016

Split Lock Washers

106788	2	.161	$.03	$.018
40977	4	.205	.016	.012
42462	6	.240	.024	.016
51609	8	.279	.03	.018

PCB Standoff Mounting Hardware


28337


129251


148056


156849

- Snap "on" • Nylon

28337: 1.2"L x 0.6"W for 0.2" holes
129251: 0.9"L x 0.4"Dia. for 0.2"/0.3" holes
148056: 0.8"L x 0.5"W for 0.1"/0.2" holes
156849: 0.5"L x 0.35"Dia. for 0.187" holes
156831: 0.68"L x 0.32"Dia for 0.140" holes


156831

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Product No.	1	10	100	1000
28337	PCST	✳	$.15	$.07	$.04
129251	PCST2	✳	.15	.11	.07
148056	PCST3	✳	.13	.08	.03
156849	KCS5	✳	.15	.10	.06
156831	KCS10	✳	.15	.09	.05

Snap Rivet Set

- Rivet post pressure expands legs for fast and permanent fastening
- Material: nylon 66, 94V-2
- Size: (rivet) 0.3"L; (spreaders): 0.25" x 0.117" Dia.


Rivet Spreader

✳ Prepackaged: please order in increments of 10, 100 or 1000

Part No.	Description	10	100	1000
157374	Snap rivet set ✳	$.15	$.12	$.06

PC Battery Eliminator

All IBM PC Compatibles



- Eliminates clock battery (3-7.2V) on your system
- Maintains SETUP configuration
- Replaces all PC batteries
- Input: 12VDC @ typical 5mA, peak 50mA
- Output: 4-5VDC nom. @ 40µA
- Must be fully charged prior to use • Wt.: 0.15 lbs.
- One-year manufacturer's warranty

Part No.	Description	1	10
11172	Battery eliminator	$34.95	$29.95

JAMECO Plastic Accessories



- Solder tabs
- Made of durable, black plastic
- WLC – wire lead with connector (computer clock backup)
- Placement of cells: parallel (PC)
- Battery type: 4 AA
- Term: 6" WLC • Size: 2.3"L x 2.5"W x 0.64"H

Part No.	Description	1	10	100	1000
105857	Plastic battery holder	$.89	$.69	$.59	$.49

Cellular Phone Charger

Motorola Plug-in Charger



- Charge your battery by plugging the saver into your cigarette lighter and phone
- 6' coiled cord
- Color: black
- Weight: 0.3 lbs.

Part No.	For Models	1	10	25
122681	PT-500/5200/7200	$6.95	$5.95	$4.95

Auto Power Plugs



- Strain relief
- Screw assembly
- Plugs directly into cigarette lighter
- Accepts .25" x 1.25" fuse (not included)

124759: auto plug w/ strain relief – pigtail end

Part No.	Description	Wt. (lbs.)	1	10	100
115001	W/ fuse holder	.05	$.99	$.79	$.65
161779	W/ strain relief only	.04	.55	.39	.29
124759	W/ fuse & 3' cord	0.1	1.75	1.49	.99
164304	W/ fuse (reversable)	0.4	.99	.79	.65

Auto Power Plug Splitter



- Input: cigarette adapter; non-fused
- Splits out into two 5" female automobile type recepticles
- Weight: 0.2 lbs.

Part No.	Description	1	10	50
123182	Auto power plug splitter	$2.95	$2.49	$2.25

Ceramic Cylinder Magnet



Great for projects and experiments.
.625"Dia. x .625"H.

Magnets cannot be shipped by air.

Part No.	Description	1	10	100	500
167100	Ceramic magnet	$.39	$.32	$.22	$.15

We carry major manufacturers – call for additional OEM PRICING.

Ni-Cad Batteries

Nickel-Cadmium batteries are rechargeable, sealed cells.

- Can be used for cyclic, trickle or float charge use
- Recommend P/N 147598 battery charger (pg 109)
- Weight: .04 lbs.
- **IMPORTANT:** Batteries must be fully charged prior to use!



32627



119116



101653

Part No.	Product No.	Description	Voltage	Amps	1	10	25	100
32627	S3300	AA	1.2V	500mAh	$1.95	$1.75	$1.49	$1.25
126720	351FT	2-lead (pin)	3.6V	60mAh	3.95	3.49	2.95	2.49
119116	3/V60R	3-lead (pin)	3.6V	60mAh	3.95	3.49	2.95	2.49
101653	NA101-1	2-lead (eyelet)	3.6V	60mAh	4.95	4.49	3.75	3.25

Lithium, Silver Oxide, Zinc Chloride and Alkaline Batteries

Applications: personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.



151087



151095



11789



38543



33443



33371



33398

Part Number	Product Number	Description (V/Amps/Dia.)	Battery Type	Terminals/Connection	1	10	25	100
151087	AA	1.5V/0.7Ah/.545"	Zinc chloride	Barrel pressure fit (standard AA)	$.39	$.32	$.25	$.19
140783	357	1.55V/1.65Ah/.454"	Silver oxide	Button cell	1.75	1.49	1.25	1.09
150965	840	4.5V/600mAh	Akaline	Battery pack w/ connector (Apple®)	8.95	7.95	6.95	5.49
126762	AA101-4	4.5V/2.2Ah	Akaline	Battery pack w/ plug (clock/memory)	5.95	5.49	4.49	3.95
11789	BR2325	3V/165mAh/.906"	Lithium	Coin cell (clock/memory)	1.95	1.75	1.49	1.25
14162	CR2032	3V/180mAh/.787"	Lithium	Coin cell (clock/memory)	1.39	1.15	.95	.75
33371	TL5101P	3.6V/.85Ah/.579"	Lithium	Barrel w/ leads (clock/memory)	5.95	5.49	4.95	4.49
126754	TL5101S★	3.6V/.85Ah/.579"	Lithium	Half AA (Macintosh®)	6.95	5.95	5.49	4.75
33398	TL5104P	3.6V/1.9Ah/.579"	Lithium	Barrel w/ lead (clock/memory)	7.95	6.95	5.95	4.95
146114	TL2100S	3.6V/1.9Ah/.579"	Lithium	Barrel pressure fit (clock/mem)	6.95	5.95	4.95	4.49
33427	TL5242W	3.6V/1.9Ah	Lithium	Battery pack w/ plug (PC)	9.95	8.95	7.49	6.49
33443	TL5293W	6.0V/1.9Ah	Lithium	Battery pack w/ plug (PC)	9.95	8.95	7.95	7.25
151095	N0216	9.0V/0.9Ah/1.0"L	Zinc chloride	Standard 9V with snaps	1.25	.99	.79	.65

Coin Cell Battery Holders

Part No.	Product No.	Description	1	10	100	500
38535	2S2032	Battery holder for CR2032 (PC mount)	$.69	$.59	$.49	$.35
38543	2S2325	Battery holder for (2) BR2325 or (1) 2354 (PC mount)	.75	.65	.55	.39

9 Volt Battery Snaps and Clip

- Use with standard 9 volt batteries • Fully insulated; contacts are nickel plated brass • Female inner Dia. = 0.215"
- Leads are clor coded andstripped and pre-tinned • Snap: male outer diameter = 0.225" ✳ **10 piece minimum**



Part Number	Fig.	Description	Dimensions (inches) L x W x H			Pricing 1	10	100	1000
11279★	1	3", 26 AWG, 6 prong battery snap	1.0	.50	–	✳	$.15	$.12	$.09
105793	2	Battery holder clip (9 volt)	.63	.71	1.2	✳	.15	.12	.09
109153	3	6", 26 AWG, 6 prong battery snap	1.0	.50	–	✳	.15	.12	.09
101469	3	10", 26 AWG, 4 prong battery snap	1.0	.50	–	.29	.22	.17	.14

TEMPEST Lead Acid Batteries

- .187" (except P/N 159679 – .470") color coded terminals • Rechargeable
- P/N 159679: Bolt terminals w/ bolt & nut set
- Sealed • UL approved • Two-year warranty
- Must be recharged before use

Tempest is an ISO-9001 Certified Company



155328 155336 159679

Part Number	Product Number	Nominal Voltage	Amp Hrs.	Charging Voltage Standby (V)	Charging Voltage Cyclic (V)	Cross Reference Panasonic	Cross Reference YUASA	Cross Reference Eagle Picher	Size (Ins.) L x W x H	Wt. (lbs.)	Pricing 1	Pricing 10
155328	TR4-6	6	4Ah	6.75-6.9	7.2-7.5	LCR6VP	NP4-6	CF16V4	2.8 x 1.9 x 4.0	1.8	$9.95	$8.49
175054	TR10-6	6	10Ah	6.75-6.9	7.2-7.5	LCR6V10P	NP10-6	CFM6V10	5.9 x 2.0 x 3.8	4.3	15.95	14.95
159661	TR1.9-12	12	1.9Ah	13.5-13.8	14.4-15	LCR12V2.2P	NP2.3-12	CF12V1.5	7.0 x 1.3 x 2.3	1.9	12.95	11.49
155336	TR4-12	12	4Ah	13.5-13.8	14.4-15	LCR12V4PF	NP412	CF12V4	3.6 x 2.8 x 4.0	3.4	15.95	13.49
155344	TR7-12	12	7Ah	13.5-13.8	14.4-15	LCR12V7.2BP	NP712	CFM12V65	6.0 x 2.6 x 4.0	5.9	17.95	14.95
168188	TR12-12	12	12Ah	13.5-13.8	14.4-15	PS12120	—	CFM12V12	5.9 x 3.8 x 3.8	9.0	29.95	24.95
159679	TR18-12	12	18Ah	13.5-13.8	14.4-15	LCR12V17BP	NPG18-12	CF12V18	7.1 x 3.0 x 6.6	13.8	39.95	33.95

TRIPP LITE isobar® Surge Suppressors

The world's best known, most advanced surge suppressor provides total protection against surges, spikes and line noise.


74544



139686


19001



- Diagnostic indicators on Ultra versions alert you to improper outlet wiring, loss of AC power, and damage to protection circuitry
- Multi-component circuitry suppresses up to 120,000 amp spikes with up to 1,500 joules
- "Cascade Circuitry" allows you to chose increased noise protection level for your most sensitive equipment
- UL 1449 and 1283 listed
- IsoTel model has dual RJ11 jacks for complete modem/fax surge protection
- Lifetime warranty • Heavy duty, all-metal housing; made in USA
- 2, 4 and 6-outlet suppressors have 6' cord, 8 & 12-outlet suppressors have 12' cord
- Up to $50,000 Ultimate Lifetime Insurance covers Isobar and connected equipment against surge damage for life!

MADE IN USA

Isobar Premium Surge Suppressors

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
74456	ISOBAR 2-6	600	2 outlet, 1 isolated filters	1.8	$39.95	$34.95
18981	ISOBAR 4	2200	4 outlet, 2 isolated filters	2.4	49.95	44.95
74544	ISOBAR 6	2350	6 outlet, 3 isolated filters	2.7	49.95	44.95
Isobar Ultra Premium Surge Suppressor						
19001	ISOBAR 8U	2350	8 outlet, 4 isolated filters	3.5	$69.95	$62.95
Isotel AC/Phone Line Surge Suppressor						
136848	ISOTEL 6U	2850	6 outlet, 3 isolated filters	3.0	$49.95	$46.95
Isobar Premium 19" Surge Suppressor						
139686	IBAR12	750	12 outlet, 2 isolated filters	4.7	$59.95	$53.95

BUSSMANN Line Conditioners


174203


174211

- Protects equipment from normal mode and common mode transients and noise
- Controls high frequency circulating ground currents
- Separately derived systems offering "ZERO" volts between neutral and ground conductors
- Provides near "ZERO" noise at the electronic equipments signal reference • Efficiency rate of 94% to 96%
- Attenuates noise from 1KHz to 40MHz in the ground line while freely passing 60Hz virtually
- Designed for computer equipment, telecommunications equipment, instrumentation equipment

174191: • Load current: 5.0 • 600 watts • Size: 5.3"H x 6.0"W x 9.0"D
174203: • Load current: 8.3 • 1000 watts • Size: 6.0"H x 7.0"W x 11.0'D
174211: • Load current: 16.0 • 2000 watts • Size: 7.3"H x 8.3"W x 13.5"D

Part No.	Product No.	Description	Wt. (lbs)	1	10
174191	IPS06005R	4 receptacle line conditioner	16.7	$79.95	$71.95
174203	IPS01000R	4 receptacle line conditioner	27.5	99.95	89.95
174211	IPS02000R	6 receptacle line conditioner	54.9	179.95	161.95

TRIPP LITE Standard Surge Suppressors

Economical and effective spike and noise suppression.


124337


32045

- Super 7: $25,000 Ultimate Life Insurance
- Super 8: $35,000 Ultimate Life Insurance
- Super 7+ models include RJ11 jacks for complete dataline protection • Super 7 and Super 8 feature diagonostic LEDs
- **P/N 168971**: 15' power cord


168954

Part No.	Product No.	Joules	Description	Wt. (lbs.)	1	10
168954	Super 6	450	Up to 27,000 amp spikes	1.2	$11.95	$9.95
124337	Super 7	1050	Up to 42,000 amp spikes	1.6	17.95	14.95
168962	Super 7+ Tel	1200	Up to 36,000 amp spikes	2.0	19.95	17.95
32045	Super 8	1200	Up to 54,500 amp spikes	1.7	29.95	26.95

TRIPP LITE Fax/Modem Protector

Protect change to communication lines from surges and spikes.



- Weight: 0.3 lbs. • Cable included
- Two-year manufacturer's warranty

Part No.	Product No.	Description	1	10
28601	PMP	Modem/telephone protection	$13.95	$12.49

TRIPP LITE BC Pro System

$25,000 Ultimate Lifetime Insurance



- Protect against blackouts, brownouts, surges and spikes
- LAN port for unattended shutdown of any network operating system
- Diagnostic LEDs show UPS condition, load and battery charge status

Part No.	Product No.	Description	Agency	Wt. (lbs.)	1	10
124222	BCPRO600	600VA, 6 outlets	UL/CSA	15.1	$189.95	$174.95

TRIPP LITE Line Conditioners

These line conditioners keep you working through brownouts and overvoltages.


24619

- Automatically adjust incoming AC from 87 to 140 volts
- Built-in surge suppression and noise filtering
- Up to $25,000 Ultimate Lifetime Insurance for connected equipment

Part No.	Product No.	Description	Agency	Wt. (lbs.)	1	10
24619	LS600	600 watts, 2 outlets	—	4.5	$89.95	$79.95
22744	LC1200	1200 watts, 4 outlets	UL/CSA	8.6	129.95	116.95

Woods® 6-Outlet Power Strip



- Rugged plastic housing • 3-prong 4' power cord
- Grounded outlet receptacles • Color: beige
- 125V @ 15A built in circuit breaker • Lighted on/off switch
- Size: 10.1"L x 1.5"W x 1.0"H • Weight: 1.0 lb.

Part No.	Product No.	Agency	1	10	100
172419	10728	UL, CUL	$4.95	$4.49	$3.95

SL WABER 19' Rack Mount 6-Outlet Power Strip



- Maximum rating: 15A, 125VAC, 60Hz
- 1875 watts continuous duty
- Outlets: 30-duplexed "U" grounded
- 6' 14/3 SJT black molded plug
- Circuit breaker protection
- One-year warranty
- Size: front plate: 19.0"L x 1.7"W; back cover: 17.0"L x 1.7"W x 2.4"D; mounting centers: 18.3"L x 1.3"W • Weight: 2.8 lbs.

Part No.	1	10	25	50
134295	$49.95	$44.95	$39.95	$35.95

SL WABER 4' Rack Mount 10-Outlet Power Strip



- Rating: 15A, 125VAC, 60Hz
- Surge protection and EMI/RFI filtering
- Includes universal mounting clips
- Cord length: 6'
- Size: 4.0'L x 2.0"W x 1.5"H
- Weight: 4.0 lbs.
- Color: black
- One-year warranty

Part No.	Description	1	10
144098	10-outlet power strip	$49.95	$44.95

JAMECO® & Zenith Power Strip Surge Protectors

6-outlet


156857


20175

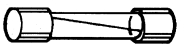
156857:
- Max. spike current: 18,000 amps, 400 joules
- Three prong 4' power cord • Plastic
- UL/CUL approved • Size: 10.3"L x 2.0"W x 1.5"H

20175: • Max. spike current: 4500 amps, 50 joules
- Three-prong, 4' power cord • Metal
- Size: 12.3"L x 2.4"W x 1.3"H

Part No.	Description	Wt. (lbs.)	1	10	100
156857	Plastic pwr strip	1.0	$6.95	$6.25	$5.59
20175	Metal pwr strip	1.5	8.95	7.95	6.95

5mm x 20mm Miniature Fuses

Fast Acting Fuses
GMA Fuses: 5mm x 20mm



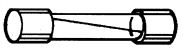
- Recommended for new design
- 250mA-5 amp (250V)

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Amps	10	100	1000
103886	250mA ✳	$.15	$.11	$.08
102040	500mA ✳	.15	.11	.08
103907	1 amp ✳	.15	.11	.08
103915	2 amp ✳	.15	.11	.08
103923	3 amp ✳	.15	.11	.07
103931	5 amp ✳	.15	.11	.07

.25" x 1.25" Standard Fuses

Fast Acting Fuses
AGC/3AG Fuses: .25" x 1.25"



- 250mA-10 amp (250V)

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Amps	10	100	1000
69403	250mA ✳	$.15	$.11	$.07
10410	500mA ✳	.15	.11	.07
10372	1 amp ✳	.17	.12	.09
10381	2 amp ✳	.15	.11	.08
69438	3 amp ✳	.15	.11	.07
10401	5 amp ✳	.15	.11	.07
69462	10 amp ✳	.15	.11	.08

Slow Blow Fuses
MDL/3AG Fuses: .25" x 1.25"

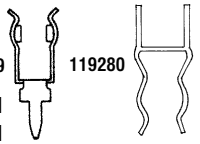


- 250mA-10 amp (250V)

Part No.	Amps	1	10	100	1000
25654	250mA	$.45	$.35	$.29	$.22
25689	500mA	.45	.35	.29	.25
25638	1 amp	.45	.35	.29	.22
25646	2 amp	.45	.35	.29	.22
69534	3 amp	.55	.45	.35	.29
25671	5 amp	.45	.35	.29	.22
69569	10 amp	.45	.35	.29	.22

5mm Miniature Fuse Clips

- Accepts 5mm fuses
- Size: (not including solder tabs)
  102859: 0.3"W x 0.2"L x 0.4"H
  119280: 0.2"W x 0.2"L x 0.5"H



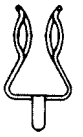
✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
102859	Fuse clip front leads ✳	$.12	$.09	$.06
119280	Fuse clip side leads ✳	.12	.09	.05

.25" Standard PCB Fuse Clip

- Accepts .25" fuses • Tinned brass
- Size: (not including solder taps) 0.3"W x 0.3"L x 0.3"H

✳ **Prepackaged: please order in increments of 10, 100 or 1000**



Part No.	Description	10	100	1000
102841	.25" fuse clip (10A) ✳	$.12	$.09	$.06

.25" Standard Fuse Clips

Screw Mount

- Accepts 0.25" fuses
- PC screw mount type
- 10A rated current
- Size: 0.3"L x 0.3"W x 0.5"H

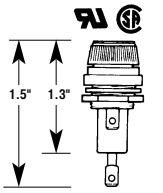


✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	10	100	1000
164700	45˚ fuse clip ✳	$.07	$.03	$.015
164697	90˚ fuse clip ✳	.07	.03	.015

5mm x 20mm Miniature Fuse Holders

- Accepts 5 x 20mm fuses including GMA (left) and GMC series
- Straight solder terminal
- Includes washer and rear hex nut
- Size: 1.5"L x 0.6"Dia.
- Weight: .02 lbs.
- **150463:** • 6A @ 250VAC
- **102824:** • 10A @ 250VAC
- UL/CSA recognized



Part No.	Mounting Hole	1	10	100
150463	0.5"Dia. x 0.43" flats (2)	$.75	$.59	$.49
102824	0.5"Dia., UL/CSA	.99	.79	.55

5mm x 20mm Miniature Low Profile Fuse Holder

- Accepts 5 x 20mm fuses
- 10A @ 250VAC
- UL/CSA recognized
- Size: 1.4"L x 0.6"Dia.
- Weight: .02 lbs.
- D Style mounting hole: 0.5"Dia x .46 flat (1)



Part No.	Description	1	10	100
102832	Fuse holder UL/CSA	$1.25	$.99	$.79

5mm x 20mm Miniature In-Line White Fuse Holder

- Accepts 5 x 20mm fuses
- Wire lengths: both 3.5"
- Built-in spring ensures good fuse connection
- Size: 2.1"L x 0.6"Dia. • Weight: .01 lbs.



Part No.	AWG	Color	Body Size(L)	1	10	100
109330	20	red	1.8"	$.49	$.39	$.32

.25" x 1.25" Standard Panel Mount Fuse Holders

- Accepts standard .25" x 1.25" fuses including AGC and MDL fuses (left)
- 10A @ 250VAC • Weight: .03 lbs.
- **120993:** • Size: 1.95"L x 0.71"Dia.
- Mounting hole: 0.58"Dia.
- **18702:** • Size: 2.05"L x 0.71"Dia. • UL/CSA recognized
- D style mounting hole: 0.58"Dia. x 0.52" flat (1)



Part No.	Cap Type	1	10	100
120993	Thumb screw cap	$.75	$.59	$.39
18702	Thumb screw cap, UL/CSA	.95	.75	.65

.25" x 1.25" Standard In-Line Fuse Holders

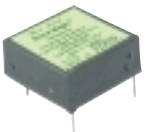
- Built-in spring ensures good fuse connection
- Accepts .25" x 1.25" fuses including AGC & MDL series
- Vinyl covered wire with stranded copper center



Part No.	AWG	Wire Lengths	Wire Color	Body Size(L)	Body Color	1	10	100
109321	22	3.5/3"	red	2.4"	black	$.49	$.39	$.32
102867	20	3/3"	red	2.2"	white	.49	.39	.29
151917	18	6/6"	red	2.4"	white	.59	.49	.39
108783	16	21/26"	orange	2.2"	black	.79	.65	.49
108791	14	19/25"	red	2.5"	black	.99	.79	.55

Black Magic Telephone Ringing Generator

Switching inverter that produces low-frequency alternating current to signal telecom ringers or equivalents.



- No reverse polarity protection
- Frequency: 20Hz • Series resistor: 300Ω

Part Number	Product Number	Nominal Voltage	Wt. (lbs.)	1	10	25
145816	LBMR12	86	.06	$24.95	$22.49	$19.95

JAMECO 0.5 Watt Solar Panel

- Rated 9VDC @ 0.06A, .54 watt maximum (for maximum sunlight)
- 9.5VDC open circuit
- Output connection: conductive film requiring pressure contact or use of 3M conductive epoxy
- Use for battery charging and other solar applications or experiments
- Size: 6.0"Sq. x 0.1"Thick • Weight: 0.3 lbs.



Part No.	Description	1	10	50
141751	0.5W solar panel	$8.95	$7.95	$6.95

JAMECO 1.7 Watt Photovoltaic Solar Panel

- Rated 18.16VDC open circuit (max.)
- 12.18VDC at 0.141mA in bright sunlight
- Output connection: conductive film requiring pressure contact or use of 3M conductive epoxy
- Use for battery charging and other solar panel applications or experiments
- Use 2 or more panels in series or parallel for increased output • Weight: 1.6 lbs.



12" x 12" x 3/32" glass plate

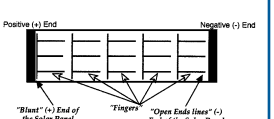
Part No.	Description	1	10	50
106702	1.7W solar panel	$24.95	$22.49	$18.95

Photon Techntechnologies Flexible Thin-Film Solar Panels

- Can be easily soldered to by (burning through) a thin polyester adhesive layer, over the copper contact with standard soldering iron
- For recharging NiCad, Nickel Metal Hydride and Gel-cell batteries



171061



- Units can be joined together in series to increase voltage or paralleled to increase current
- Inexpensive and easy to adapt to various applications
- Size: 4.5"L x 1.46"W • Weight: 0.003 lbs.

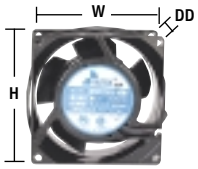
Part No.	Output	1	10	100
172831	3VDC @ 10mA	$5.95	$5.35	$4.79
171061	3VDC @ 40mA	7.95	6.95	5.95

JAMECO Miniature Glass Solar Panels

- Operating temp. range: -5˚C – +40˚C
- Storage temp. range: -20˚C – +70˚C
- Open circuit voltage: 3.0VDC (P/N 171977); 16.5VDC (P/N 171985) in full sunlight
- May be paralleled to increase current
- May be seriesed to increase voltage • Wt.: .03 lbs.



Part No.	Op. Voltage	Size (L"xW")	1	10	50
171977	1.8VDC @ 26mA	2.0 x 1.4	$6.25	$5.49	$4.95
171985	12VDC @ 3mA	3.6 x 1.0	6.25	5.49	4.95



111915

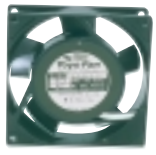

109874

We carry major manufacturers – call for additional OEM PRICING.

- Low acoustical noise rating
- Rating 115VAC @ 50/60Hz
- Rating 220VAC @ 50/60Hz
- Manufacturers may vary
- Ball and sleeve bearings
- Air flow from 10 to 236 CFM
- Power input by lead wires or terminals
- Agency approved fans

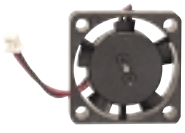
For Fan Guards and Cords – see page 79


106585


131983

Part Number	Manufacturer	Product Number	Voltage (AC)	Dimensions (In.) W" x H" x D"	Air Flow CFM	Bearing Ball/Sleeve	Current (mA)	Power Watts	Agency Approvals	Noise (dba)	Connection Wires/Terminals	Pricing 1	10	50
162704	Globe	A-24-B12A-15W3-000	115 VAC	2.36 x 2.36 x 1.20	10	Ball	44 mA	4.0	UL, CSA, VDE	29	12" lead wires	$5.95	$5.35	$4.79
75408	Fulltech	UF80B12SWH★	115 VAC	3.15 x 3.15 x 1.00	24	Sleeve	140 mA	14.0	UL, CSA, TUV, CE	35	12" lead wires	11.95	10.95	9.95
146077	Common Wealth	FP108AX-S1-B	115 VAC	3.15 x 3.15 x 1.00	24	Ball	140 mA	14.0	UL, CE	29	12" lead wires	12.95	11.95	10.95
111915	Fulltech	UF80A12SWL	115 VAC	3.15 x 3.15 x 1.50	25	Sleeve	110 mA	12.0	UL, CSA, TUV, CE	32	12" lead wires	10.95	9.95	8.95
16977	Fulltech	UF80A12BWL★	115 VAC	3.15 x 3.15 x 1.50	25	Ball	110 mA	11.0	UL, CSA, TUV	32	12" lead wires	11.95	10.95	9.95
16969	Fulltech	UF80A12BTL★	115 VAC	3.15 x 3.15 x 1.50	25	Ball	110 mA	11.0	UL, CSA	32	terminals	12.95	11.95	10.95
102904	Fulltech	UF80A12BWH★	115 VAC	3.15 x 3.15 x 1.50	30	Ball	120 mA	12.0	UL, CSA, TUV	36	12" lead wires	12.95	11.95	10.95
75432	Sunon	SF11592A-1092HSL	115 VAC	3.63 x 3.63 x 1.00	36	Sleeve	130 mA	12.0	UL, CSA, TUV	39	12" lead wires	12.95	11.95	10.95
75459	Sunon	SF11592A-1092HBT★	115 VAC	3.63 x 3.63 x 1.00	37	Ball	130 mA	12.0	UL, CSA	40	terminals	13.95	12.95	11.95
124062	Sunon	SP101AT1122HBT	115 VAC	4.68 x 4.68 x 1.00	78	Ball	180 mA	18.0	CSA, TUV	46	terminals	13.95	12.95	11.95
118965	Fulltech	UF12A12BTLL	115 VAC	4.68 x 4.68 x 1.50	52	Ball	85 mA	8.4	UL, CSA	15	terminals	11.95	10.95	9.95
109874	Fulltech	UF12A12STL	115 VAC	4.68 x 4.68 x 1.50	81	Sleeve	110 mA	9.0	UL, CSA	47	terminals	11.95	10.95	9.95
16951	Jameco	FAN2RFE (used)	115 VAC	4.68 x 4.68 x 1.50	90	Sleeve	150 mA	15.0	UL, CSA	39	terminals	5.95	4.95	3.95
16934	Jameco	FAN1(FP108-1-S1-B)★	115 VAC	4.68 x 4.68 x 1.50	90	Ball	190 mA	15.0	UL, CSA	39	terminals	11.95	10.95	9.95
111894	Common Wealth	FP108-1-S1/W★	115 VAC	4.68 x 4.68 x 1.50	105	Sleeve	180 mA	17.0	UL, CSA	47	12" lead wires	11.95	10.95	9.95
106585	Common Wealth	FP108-1-S1/T	115 VAC	4.68 x 4.68 x 1.50	105	Sleeve	140 mA	12.0	UL, CSA, CE	35	terminals	11.95	10.95	9.95
102883	Sunon	SP100A-1123XBT★	115 VAC	4.68 x 4.68 x 1.50	117	Ball	240 mA	20.0	UL, CSA, TUV	50	terminals	12.95	11.95	10.95
108724	Pabst	W2E142-CC13-16	115 VAC	6.75 x 5.90 x 1.50	175	Ball	140 mA	16.0	UL, CSA	54	terminals	24.95	22.49	19.95
164275	Pabst	W2E142-BB05-87	115 VAC	6.75 x 5.90 x 1.50	236	Ball	226 mA	26.0	UL, CSA, CE	62	term (hall effect 3 lead)	24.95	22.49	19.95
141604	Fulltech	UF15P12BTH	115 VAC	6.75 x 5.90 x 2.00	205	Ball	440 mA	33.0	CE	55	terminals	24.95	22.49	19.95
100917	Sunon	SF23080A★	220 VAC	3.15 x 3.15 x 1.50	30	Sleeve	60 mA	13.5	UL, CSA, TUV	35	12" lead wires	12.95	11.95	10.95
174932	NMB	3115FS-23T-B10	220 VAC	3.15 x 3.15 x 1.50	25	Ball	30 mA	4.6	UL, CSA, TUV, CE	25	terminals	11.95	10.95	9.95
131983	Toyo Fan	UT926A8	220 VAC	3.63 x 3.63 x 1.00	30	Ball	30 mA	8.0	UL	35	terminals	12.95	11.95	9.95
175003	NMB	4715MS-23W-B10	220 VAC	4.68 x 4.68 x 1.50	50	Ball	45 mA	6.0	UL, CE, TUV	28	12" lead wires	11.95	10.95	9.95
159011	NMB	4715PS-23T-B30	220 VAC	4.68 x 4.68 x 1.50	90	Ball	90 mA	14.5	UL, CSA, TUV	53	terminals	12.95	11.95	10.95
102891	Sunon	DP200A-2123XBT★	220 VAC	4.68 x 4.68 x 1.50	117	Ball	140 mA	21.0	UL, CSA, TUV	50	terminals	13.95	12.95	11.95

DC Brushless Fans


163475


102921

We carry major manufacturers – call for additional OEM PRICING.

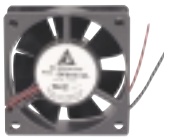
- Low acoustical noise rating
- Fan part number 16993 (pg 78) is an ideal replacement for the PC/XT computer power supply fan
- Manufacturers may vary


102939


161699

Part Number	Manufacturer	Product Number	Voltage (DC)	Dimensions (In.) W" x H" x D"	Air Flow CFM	Bearing Ball/Sleeve	Current (mA)	Power Watts	Agency Approvals	Noise (dBa)	Lead Wires	Pricing 1	10	50	100
163475	Nidec	C34427-55APP	5 VDC	1.00 x 1.00 x 0.40	0.5	Ball	90 mA	0.45	—	22	2"	$5.95	$5.35	$4.79	$3.95
131246	Adda	AD0205LX-G50	5 VDC	1.00 x 1.00 x 0.40	1.3	Sleeve	120 mA	0.6	UL, CSA, CE	18.7	3"	9.95	8.95	7.95	6.95
142851	Shicoh	0410N-5E	5 VDC	1.60 x 1.60 x 0.40	4.2	Ball	190 mA	0.9	—	23	2.5"	6.95	6.25	5.59	4.95
102921	Sunon	KD0504PFS2★	5 VDC	1.60 x 1.60 x 0.40	6.3	Sleeve	250 mA	0.6	UL, CSA	24.3	12"	7.95	6.95	6.25	5.59
166887	Copal	F412R-05LB-09	5 VDC	1.60 x 1.60 x 0.50	3.9	Ball	100 mA	0.5	—	16	7"	5.95	5.35	4.79	3.95
171678	Delta	AFB0405HHD	5 VDC	1.60 x 1.60 x 0.80	9.4	Ball	700 mA	3.5	—	36	2.5"	5.95	5.35	4.79	4.29
102912	Sunon	KD1202PFB2	12 VDC	1.00 x 1.00 x 0.40	2.0	Ball	95 mA	1.2	UL, CSA, TUV	24.5	6"	12.95	11.95	10.95	9.95
162907	Elina	KDA123510MB	12 VDC	1.40 x 1.40 x 0.40	4.5	Ball	120 mA	1.5	UL, CSA, TUV, CE	21	3"	5.95	5.35	4.79	4.25
161015	Adda	ADO412HB-G70	12 VDC	1.60 x 1.60 x 0.40	6.2	Ball	70 mA	0.8	UL, CSA, TUV, CE	24.8	10.5"	5.95	5.35	4.79	4.25
102939	Jamicon	JF0410S1H★	12 VDC	1.60 x 1.60 x 0.40	6.4	Sleeve	110 mA	1.3	UL, CSA, TUV, CE	34.7	10.5"	5.95	5.35	4.79	3.95
161699	Sunon	KD1204PFB2-8	12 VDC	1.60 x 1.60 x 0.40	6.5	Ball	70 mA	0.9	UL, CSA, TUV	24.5	11"	6.95	6.25	5.59	4.95
174131	Jamicon	JF0413S1M	12 VDC	1.60 x 1.60 x 0.50	3.8	Sleeve	90 mA	1.1	UL, CSA, TUV	26	14"	4.95	4.49	3.95	3.49
174123	Jamicon	JF0413B1	12 VDC	1.60 x 1.60 x 0.50	3.8	Ball	100 mA	1.2	UL, CUL, TUV	26	14"	5.95	5.35	4.79	4.25
18770	Sanyo Denki	109P0412B704	12 VDC	1.60 x 1.60 x 0.60	6	Sleeve	60 mA	0.7	—	22	4"	5.95	5.35	4.79	4.25

DC Brushless Fans continued on page 78 & 79



150421



134586

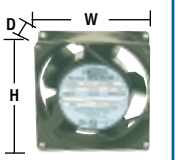
We carry major manufacturers – call for additional OEM PRICING.

- Low acoustical noise rating
- Manufacturers may vary
- Fan part number 16993 is an ideal replacement for the PC/XT computer power supply fan
- **134586:** Blower type fans
- **172460:** Has third lead for rotor
- **172478:** Has locking rotor
- **174967:** 3 lead wires
- **174941:** Locked rotor

† Temp Control: 151335/163601/163619 (35°C); 166959 (40°C); 162739 (50°C, 3 leads)



16993



102875

Part Number	Manufacturer	Product Number	Voltage (DC)	Dimensions (In.) W" x H" x D"	Air Flow CFM	Bearing Ball/Sleeve	Current (mA)	Power Watts	Agency Approvals	Noise (dBa)	Lead Wires	Pricing 1	10	50	100
154851	NMB	1606KL-04W-B30★	12 VDC	1.60 x 1.60 x 0.60	6	Ball	67 mA	0.8	UL, CSA, VDE	28	8"	$6.95	$6.25	$5.59	$4.95
136178	Adda	AD0412MS-C70	12 VDC	1.60 x 1.60 x 0.80	5	Sleeve	110 mA	1.32	UL, CSA, TUV	23	9"	4.95	4.49	3.95	3.49
75344	Delta	DFB0412M★	12 VDC	1.60 x 1.60 x 0.80	7.3	Ball	80 mA	0.8	UL, CSA, TUV	28	10"	5.95	5.35	4.79	4.29
139601	Elina	KDA120515M	12 VDC	2.00 x 2.00 x 0.60	10	Sleeve	130 mA	1.6	—	27	12"	6.95	6.25	5.59	4.95
147491	Shicoh	0610-12HH	12 VDC	2.36 x 2.36 x 0.40	16.2	Ball	150 mA	1.8	—	38	5"	5.95	5.35	4.79	4.29
104205	Panaflo	FBA06T12L★	12 VDC	2.36 x 2.36 x 0.60	12	Sleeve	130 mA	1.1	—	24	6"	6.95	6.25	5.59	4.95
151327	NMB	2406KL-04W-B40-L00	12 VDC	2.36 x 2.36 x 0.60	16	Ball	130 mA	1.6	UL, CSA, VDE	31	9"	6.95	6.25	5.59	4.95
175046	Globe	D24-D08A-04W3-000	12 VDC	2.36 x 2.36 x 0.80	10.6	Ball	90 mA	0.8	UL, CSA, TUV, CE	22	13"	3.95	3.55	3.19	2.79
144160	Adda	AD0612LB-C70GL	12 VDC	2.36 x 2.36 x 0.80	12.6	Ball	80 mA	1.0	UL, CSA, TUV	22.7	6"	4.95	4.49	3.95	3.49
105291	Nidec	TA225DC-A32313-16	12 VDC	2.36 x 2.36 x 1.00	11	Ball	70 mA	0.8	—	34	9"	3.95	3.55	3.19	2.79
75352	CommonWealth	FP108FDC12VS2★	12 VDC	2.36 x 2.36 x 1.00	15.5	Sleeve	110 mA	1.3	UL, CSA, TUV	25	12"	5.95	5.35	4.79	4.25
150421	Jamicon	JF0625B1H	12 VDC	2.36 x 2.36 x 1.00	17.6	Ball	200 mA	2.4	UL, CSA, VDE	28.5	10"	5.95	5.35	4.79	4.25
136143	Delta	SB0612M	12 VDC	2.36 x 2.36 x 1.00	17.7	Sleeve	200 mA	2.4	UL, CSA, VDE	26.5	5"	3.95	3.55	3.19	2.79
147029	Nidec	TA225DC-M33455-16	12 VDC	2.36 x 2.36 x 1.00	20	Ball	220 mA	2.6	UL, CSA	47	11"	4.95	4.49	3.95	3.49
102947	Jamicon	JF0625S1H	12 VDC	2.36 x 2.36 x 1.00	20.5	Sleeve	230 mA	2.7	UL, CSA, TUV	30	11"	5.95	5.35	4.79	4.25
134586	Adda	AD7512HB	12 VDC	2.98 x 2.98 x 1.18	10.3	Ball	240 mA	2.9	CE	38.5	12"	12.95	11.95	10.95	9.95
154675	Panaflo	FBA08T12H5D★	12 VDC	3.15 x 3.15 x 0.60	33.5	Sleeve	260 mA	2.4	UL, CSA	34	11"	7.95	6.95	6.25	5.59
141920	Adda	AD0812HB-C70	12 VDC	3.15 x 3.15 x 0.80	27.3	Ball	240 mA	2.8	UL, CSA	34	12"	9.95	8.95	7.95	6.95
75361	Jamicon	FAN6 (JF0825B1L)	12 VDC	3.15 x 3.15 x 1.00	25	Ball	70 mA	1.2	UL, CSA	25	11"	6.95	6.25	5.59	4.95
16993	Jameco	FAN7 (JF0825S1L)★	12 VDC	3.15 x 3.15 x 1.00	27	Sleeve	140 mA	1.6	UL, CSA	25	12"	6.95	6.25	5.59	4.95
131748	NMB	3110KL-04W-B20★	12 VDC	3.15 x 3.15 x 1.00	28	Ball	140 mA	1.3	UL, CSA	25	9"	6.95	6.25	5.59	4.95
154288	Sunon	KDE1208PTS3-6	12 VDC	3.15 x 3.15 x 1.00	29.4	Sleeve	120 mA	1.4	UL, CSA	24.5	5"	5.95	5.35	4.79	4.29
123529	Adda	AD0812MS-A70GL	12 VDC	3.15 x 3.15 x 1.00	32	Sleeve	150 mA	1.8	UL, CSA, TUV	23.1	12"	6.95	6.25	5.59	4.95
102955	Sunon	KD1208PTB1-6★	12 VDC	3.15 x 3.15 x 1.00	42.5	Ball	220 mA	2.6	UL, CSA, TUV, CE	33.5	12"	7.95	6.95	6.25	5.59
172460	Nidec	TA300DCM33406-68	12 VDC	3.15 x 3.15 x 1.00	43	Ball	290 mA	3.5	UL, CSA	41	11"/3 lead	7.95	6.95	6.25	5.59
166959	NMB (Smart Fan)	3110NL-012Q340-00†	12 VDC	3.15 x 3.15 x 1.00	35	Ball	290 mA	3.5	UL, CSA	35	3"	8.95	7.95	6.95	6.25
151335	Delta (Smart Fan)	DFC0812B†	12 VDC	3.15 x 3.15 x 1.00	37.4	Ball	200 mA	2.4	UL, CSA, TUV	32	17"	9.95	8.95	7.95	6.95
108425	Superred	CHA9212AB	12 VDC	3.63 x 3.63 x 1.00	31	Ball	120 mA	1.7	—	24	12"	5.95	5.35	4.79	4.25
154641	Nidec	D09T12PH★	12 VDC	3.63 x 3.63 x 1.00	42	Ball	170 mA	2.5	—	48	10"	7.95	6.95	6.25	5.59
75441	Common Wealth	FP108BDC12VS1	12 VDC	3.63 x 3.63 x 1.00	45	Sleeve	320 mA	3.1	UL, CSA, TUV, CE	32	10"	6.95	6.25	5.59	4.95
172478	Delta	DFB0912H-R00	12VDC	3.63 x 3.63 x 1.00	49.5	Ball	300 mA	3.1	UL,CSA,CE	35	8"/3 lead	6.95	6.25	5.59	4.95
116476	Jamicon	JF0925S1H	12 VDC	3.63 x 3.63 x 1.00	53	Sleeve	350 mA	4.2	UL, CSA, TUV	37	10"	7.95	6.95	6.25	5.59
102963	Nidec	TA350DC-M33503-55	12 VDC	3.63 x 3.63 x 1.00	56	Ball	400 mA	4.8	UL, CSA	45	8"	7.95	6.95	6.25	5.59
162739	NMB (Smart Fan)	3610KL-04W-B56†	12 VDC	3.63 x 3.63 x 1.00	55	Ball	430 mA	3.8	UL, CSA, VDE, CE	37	10"	8.95	7.95	6.95	5.95
174140	Common Wealth	FP108MS3	12 VDC	4.68 x 4.68 x 1.00	50	Sleeve	140 mA	2.9	UL, CSA, TUV, CE	25	12"	6.95	6.25	5.59	4.95
174959	NMB	4710NL-04T-B20	12 VDC	4.68 x 4.68 x 1.00	60	Ball	200 mA	1.8	UL, CSA, TUV, CE	29	terminals	7.95	6.95	6.25	5.59
75467	NMB	4710NL-04W-B30	12 VDC	4.68 x 4.68 x 1.00	70	Ball	320 mA	2.9	UL, CSA, VDE	34	12"	7.95	6.95	6.25	5.59
174916	NMB	4710NL-04T-B30	12 VDC	4.68 x 4.68 x 1.00	70	Ball	320 mA	2.9	UL, CSA, TUV	34	terminals	8.95	7.95	6.95	6.25
174086	Jamicon	JF1225S1M	12 VDC	4.68 x 4.68 x 1.00	74	Sleeve	250 mA	3.0	UL, CUL, CE	36	11"	7.95	6.95	6.25	5.59
102875	Delta	WFB1212H	12 VDC	4.68 x 4.68 x 1.00	86.5	Ball	360 mA	4.3	UL, CSA, TUV	37.6	12"	8.95	7.95	6.95	6.25
174924	Globe	D47-B10A-04T3-000	12 VDC	4.68 x 4.68 x 1.00	90	Ball	740 mA	6.8	UL, CSA	39	terminals	9.95	8.95	7.95	6.95
163619	NMB (Smart Fan)	4710NL012P535P0†	12 VDC	4.68 x 4.68 x 1.00	90	Ball	740 mA	8.8	—	38.5	4"	5.95	5.35	4.79	4.29
174941	Globe	D47-B15A-04T2-100	12 VDC	4.68 x 4.68 x 1.50	75	Ball	520 mA	5.3	UL, CSA, TUV	38	terminals	9.95	8.95	7.95	6.95
174967	NMB	4715KL-0410W-B29	12 VDC	4.68 x 4.68 x 1.50	97	Ball	520 mA	4.8	UL, CSA, TUV	40	12"/3 lead	9.95	8.95	7.95	6.95
159020	Sunon	KDE1212PMS1-6A	12 VDC	4.68 x 4.68 x 1.50	107	Sleeve	570 mA	6.8	UL, CSA	41	12"	11.95	10.95	9.95	8.95
94625	NMB	4715KL04W-B30★	12 VDC	4.68 x 4.68 x 1.50	108	Ball	720 mA	6.6	UL, CSA, TUV, CE	43	12"	12.95	11.95	10.95	9.95
163601	Delta (Smart Fan)	WFC1212BE†	12 VDC	4.68 x 4.68 x 1.50	108	Ball	650 mA	6.6	UL, CSA, VDE	41.3	12"	10.95	9.95	8.95	7.95
175020	NMB	6820PL-04W-B30	12 VDC	6.75 x 6.75 x 2.00	170	Ball	1900 mA	21.8	UL, CSA, TUV	49	13"	19.95	17.95	15.95	13.95

DC Brushless Fans continued on page 79

Part Number	Manufacturer	Product Number	Voltage (DC)	Dimensions (In.) W" x H" x D"	Air Flow CFM	Bearing Ball/Sleeve	Current (mA)	Power Watts	Agency Approvals	Noise (dBa)	Lead Wires	Pricing 1	10	50	100
100909	Sunon	KD2404PKS2	24 VDC	1.60 x 1.60 x 0.80	6.5	Sleeve	50 mA	1.2	UL, CSA, TUV, CE	25.5	12"	$7.95	$6.95	$6.25	$5.59
175038	NMB	2408NL-05W-B20	24 VDC	2.36 x 2.36 x 0.80	11	Ball	60 mA	0.9	UL, CSA	22	13"	5.95	5.35	4.79	4.29
140661	NMB	2408NL-05W-B60	24 VDC	2.36 x 2.36 x 0.80	18.4	Ball	100 mA	2.4	—	31	1.5"	5.95	5.35	4.79	4.29
174107	Jamicon	JF0625S2M	24 VDC	2.36 x 2.36 x 1.00	18	Sleeve	130 mA	3.1	UL, TUV	24	10"	5.95	5.35	4.79	4.25
146093	NMB	2410ML-05W-B40	24 VDC	2.36 x 2.36 x 1.00	22	Ball	100 mA	2.4	UL, CSA, VDE	35	12"	6.95	6.25	5.59	4.95
174078	Jamicon	JF0825S2L	24 VDC	3.15 x 3.15 x 1.00	26	Sleeve	200 mA	4.8	CUL, TUV	22.2	10"	5.95	5.35	4.79	4.25
112408	Jamicon	JF0825B2M	24 VDC	3.15 x 3.15 x 1.00	32	Ball	130 mA	3.1	UL, CSA, TUV	28	10"	6.95	6.25	5.59	4.95
162923	Jamicon	JF0825S2H	24 VDC	3.15 x 3.15 x 1.00	39.2	Sleeve	150 mA	3.6	UL, CSA, TUV	31	10"	7.95	6.95	6.25	5.59
136160	Jamicon	JF0825B2H★	24 VDC	3.15 x 3.15 x 1.00	39.2	Ball	150 mA	3.6	UL, CSA, TUV	31	12"	8.95	7.95	6.95	6.25
136792	Innovative	BP922524M	24 VDC	3.63 x 3.63 x 1.00	31	Ball	140 mA	3.3	UL, CSA, TUV	31	12"	6.95	6.25	5.49	4.95
174094	Jamicon	JF0925S2H	24 VDC	3.63 x 3.63 x 1.00	52	Sleeve	160 mA	3.8	CUL	37	7.5"	7.95	6.95	6.25	5.59
117049	NMB	4710PL-05W-B20-100	24 VDC	4.68 x 4.68 x 1.00	53	Ball	90 mA	2.1	UL, CSA	29	12"	9.95	8.95	7.95	6.95
175281	Globe	D47B10A05W2000	24 VDC	4.68 x 4.68 x 1.00	70	Ball	160 mA	2.88	UL, CSA, TUV, CE	34	12"	9.95	8.95	7.95	6.95
100968	NMB (Boxer)	4715KL-05W-B10	24 VDC	4.68 x 4.68 x 1.50	83	Ball	150 mA	3.6	—	35	12"	11.95	10.95	9.95	8.95
153411	Sunon	KD2412PMB2-6A	24 VDC	4.68 x 4.68 x 1.50	98	Ball	230 mA	5.5	UI, CSA, TUV	36.5	12"	13.95	12.49	10.95	9.95
175011	NMB	5920PL-05W-B30	24 VDC	6.75 x 5.90 x 2.00	210	Ball	800 mA	15.1	UL, CSA, TUV, CE	51	12"	19.95	17.95	15.95	13.95
175476	NMB	6820PL-05W-B10	24 VDC	6.75 x 6.75 x 2.00	170	Ball	480 mA	11.5	UL, CSA, TUV, CE	45	12.5"	19.95	17.95	15.95	13.95
166730	Mechatronics	A9225H48B	48 VDC	3.63 x 3.63 x 1.00	51	Ball	100 mA	4.8	UL, CSA, TUV	36	13"	9.95	8.95	7.95	6.95
175468	NMB	5920PL-07W-B30	48 VDC	6.75 x 5.90 x 2.00	210	Ball	400 mA	14.4	UL, CSA	51	12.5"	19.95	17.95	15.95	13.95
175505	NMB	5920PL-07W-B49	48 VDC	6.75 x 5.90 x 2.00	230	Ball	450 mA	21.6	UL, CSA, TUV	54	8" (5)	19.95	17.95	15.95	13.95

Heat Sink Fans and Cords

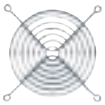
Fan Guards and Filters


123502


163432


120037


31923/123511


25734


163441


138561/163459


25726


130104/138579

Compatible with AC/DC Fans (see above and pages 77 & 78)

All guards, screens and filters fit all fans by matching the H" dimension. Example: 75408 fan height is 3.15", 31923 metal guards are 3.15". They fit one another.

Part No.	Description	1	10	100
123502	1.60" metal (chrome) guard	$.99	$.85	$.69
163432	2.00" metal (chrome) guard	.99	.85	.69
120037	2.36" metal (chrome) guard	.99	.85	.69
31923★	3.15" metal (chrome) guard	1.09	.89	.75
123511★	3.63" metal (chrome) guard	1.09	.99	.75
25734★	4.68" metal (chrome) guard	1.09	.99	.75
163441	2.36" plastic filter w/ mesh	1.09	.99	.75
138561	3.15" plastic filter w/ mesh	1.75	1.49	1.19
163459	3.63" plastic filter w/ mesh	1.75	1.49	1.19
25726★	4.68" plastic filter w/ mesh	1.95	1.75	1.39
138579	3.15" aluminum washable filter	2.75	2.49	2.25
130104	4.68" aluminum washable filter	2.95	2.69	2.39

JAMECO® Fan Plug Cords

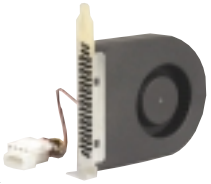

28564


104192

- Cord type: SPT-1 (2) conductor black
- Voltage rating: 300V • Fits all terminal fans
- Temperature range: 60°C • Weight: .05 lbs.

Part No.	Description	1	10	100
28564★	Straight 24" fan cord	$1.09	$.89	$.75
104192	90° angle 24" fan cord	1.09	.89	.75

Back Panel PC Cooling Fan

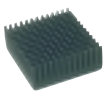


- Type: sleeve axial fan
- Back panel mountable
- Airflow: 42 CFM
- Noise ratio: 26 dBa
- Power: 1.8W
- Operating volt.: 12VDC @ 200mA
- 10.5" wire with 4-pin Molex power connector • One-year warranty
- Size: 4.3"L x 3.5"H x 1.1"Thick • Weight: 0.3 lbs.

Part No.	Description	1	10	50
152240	PC cooler fan	$19.95	$17.95	$15.95

Heat Sinks/Heat Sinks with Fans for 486, 586, 686 & Pentium® Processors

Keep your 486, 586, 686 & Pentium® chips cool!


129234


118092


174115


67660


132100


181278


151298


180785

- Excellent for avoiding CPU overheating during extended system on-time
- High efficiency cooling fan • Easy installation – just snap it in

174115: 14" lead wires


174027


180961

Part No.	Description	Wt. (lbs.)	Agency Approvals	1	10	50
129226	Heat sink for 486 CPU – adhesive tape application (0.4"H)	0.1	—	$2.49	$1.95	$1.49
129234	Heat sink for 486 CPU – adhesive tape application (0.7"H)	0.1	—	2.95	2.49	1.49
118092★	Heat sink with fan for 686 and Pentium® 75-166	0.2	CSA/CE/TUV	5.95	5.35	4.75
153234	Heat sink with fan for Pentium® 75-133	0.2	UL/CE/TUV	4.95	4.49	3.95
174115	Heat sink with fan for 486 CPU	0.1	CUL	4.95	4.49	3.95
67660★	Heat sink with fan for 486 and 586 CPU	0.1	CSA/CE/TUV	4.95	4.49	3.95
132097	Heat sink w/fan for 686 and Pentium® 75-166 – square	0.1	UL/CSA/CE/TUV	12.95	11.49	9.95
181278	Heat sink w/fan for Pentium® 75-233	0.3	UL/CE	9.95	8.95	7.95
174027	Heat sink w/fan for Pentium® II w/ double back tape	0.4	CE/TUV	12.95	11.49	9.95
151298	Heat sink w/fan for Pentium® II	0.5	UL/CE/TUV	14.95	13.49	11.95
180785	Heat sink w/fan for Pentium® Pro	0.4	UL/CSA	19.95	17.95	15.95
180961	Heat sink w/fan for Pentium® Pro (1.0"H)	0.2	—	14.95	13.49	12.49

2-Ch Super Cooler w/ Back Light


148742




148769

- Fits 5.25" bay
- Operates on CR2032 3V battery (included)
- Requires 12VDC for fans (5.25" drive connectors)
- Audible overheat alarm
- 5.3 CFM (per fan)
- Controls two sensors
- Weight: 0.5 lbs.
- One-year warranty
- Size (digital display): 1.86"W x 1.0"H
- Size: 6.0"W x 2.4"D x 1.7"H

Optional sensors: P/N 148769 for CPU monitoring

Part No.	Description	1	10	25
148742	2-channel cooler	$39.95	$35.95	$32.49
148769	Sensor (flat type) CPU	4.95	4.49	3.95

- Molded connectors
- UL/CSA/VDE approval listed below
- Excellent resistance to jacket abrasion
- Temperature: -20°C to 60°C
- Voltage rating: 300 volts

AWG	Volts	Amps	VA
18	125	10	1250
16	125	12	1500
14	125	15	1875


Line Cord (Fig 1)


Power Cord (Fig 2)


Computer Power Cord (Fig 3)


Right Angle Computer (Fig 4)


Piggy-Backed Computer (Fig 5)


Power Supply Extension (Fig 6)


Monitor Power Adapter (Fig 7)


Hospital Grade Power (Fig 8)


RFI Power Cord (Fig 9)


Shielded Power Cord (Fig 10)


Shielded Power Cord (Fig 11)


173892 (Fig 12)


173884 (Fig 13)


173796 (Fig 14)

Part Number	Product Number	Description	Weight (lbs.)	Agency Approvals	Plug Fig.	Length	Color	AWG	Cord Type*	1	10	100	250
112723	E74713	2-conductor power cord with pigtail	.13	UL/CSA	1	5 ft.	Gray	18/2	SPT-1	$1.09	$.89	$.75	$.59
124433	ST008	2-conductor power cord with pigtail	.16	UL/CSA	1	6 ft.	Black	18/2	SPT-2	1.09	.89	.69	.59
152186	17106BG	2-conductor power cord with pigtail	.20	UL/CSA	1	6 ft.	Beige	18/2	SPT-2	.75	.59	.45	.29
42041	17106	2-conductor power cord with pigtail with strain relief	.25	UL/CSA	1	6 ft.	Black	18/2	SPT-2	1.19	.99	.89	.75
146309	PC182J6	2-conductor power cord (round) with pigtail	.31	UL/CSA	1	6 ft.	Black	18/2	SJT	.59	.45	.35	.25
146317	PC182J8	2-conductor power cord (round) with pigtail	.41	UL/CSA	1	8 ft.	Black	18/2	SJT	.59	.49	.39	.29
173809	17405	3-conductor power cord with pigtail	.39	UL/CSA	2	6 ft.	Gray	18/3	SJT	2.95	2.49	1.95	1.75
159409	17405B	3-conductor power cord with pigtail	.37	UL/CSA	2	6 ft.	Black	18/3	SJT	2.49	2.25	1.95	1.75
37997	17236	3-conductor power cord with pigtail	.30	UL/CSA	2	6 ft.	Black	18/3	SVT	2.49	2.25	1.95	1.75
174545	172365	3-conductor power cord with pigtail with strain relief	.35	UL/CSA	2	6 ft.	Black	18/3	SVT	2.25	1.95	1.49	1.25
38009	17237	3-conductor power cord with pigtail	.31	UL/CSA	2	6 ft.	Gray	18/3	SVT	2.49	2.25	1.95	1.75
38025	17238	3-conductor power cord with pigtail	.39	UL/CSA	2	8 ft.	Black	18/3	SVT	2.95	2.49	2.25	1.95
160995	17720	3-conductor power cord with pigtail, shielded	.44	UL/CSA	10	8 ft.	Black	18/3	SVT	1.95	1.75	1.49	1.25
102007	17535B	3-conductor power cord with pigtail	.49	UL/CSA	2	10 ft.	Black	18/3	SVT	2.95	2.49	2.25	1.95
100271	17629B	3-conductor power cord with pigtail	.88	UL/CSA	2	9 ft.	Black	14/3	SJT	3.95	3.49	2.75	2.49
177375	E141445	3-conductor power cord with pigtail	.26	UL/CSA	15	3 ft.	Black	16/3	SJT	1.95	1.75	1.49	1.25
103747	17248	3-conductor detachable power supply cord	.34	UL/CSA	3	6 ft.	Gray	18/3	SVT	2.95	2.49	1.95	1.49
173542	17660GY	3-conductor detachable power supply cord, shielded	.42	UL/CSA	3	6 ft.	Gray	18/3	SVT	3.95	3.49	2.75	2.49
38041	17249	3-conductor detachable power supply cord	.37	UL/CSA	3	6 ft.	Beige	18/3	SVT	2.95	2.49	1.95	1.49
38050	17250	3-conductor detachable power supply cord	.36	UL/CSA	3	6 ft.	Black	18/3	SVT	3.49	2.95	2.49	1.95
161761	17742	3-conductor detachable power supply cord, shielded	.40	UL/CSA	3	6 ft.	Black	18/3	SVT	3.95	3.49	2.75	2.49
132118	17500	3-conductor detachable power supply cord	.44	UL/CSA	3	6 ft.	Black	18/3	SJT	3.95	3.49	2.95	2.25
171096	17758	3-conductor detachable power supply cord	.60	UL/CSA	3	8 ft.	Black	18/3	SJT	3.49	2.95	2.25	1.95
159492	17501G	3-conductor detachable power supply cord	.45	UL/CSA	3	6 ft.	Gray	18/3	SJT	2.95	2.49	1.95	1.75
159361	17602	3-conductor detachable power supply cord	.57	UL/CSA	3	6 ft.	Black	16/3	SJT	2.95	2.49	1.95	1.75
142607	WTP-003	3-conductor detachable power supply cord, shielded	.63	UL/CSA	3	6 ft.	Black	16/3	SJT	3.49	2.95	2.25	1.95
125541	17504	3-conductor detachable power supply cord	.71	UL/CSA	3	6 ft.7"	Black	14/3	SJT	3.95	3.49	2.95	2.49
146069	VM0232S	3-conductor detachable power supply cord w/RFI filter	.73	UL/CSA	9	6 ft.8"	Gray	18/3	SJT	2.25	1.95	1.49	1.25
117583	17502	3-conductor detachable power supply cord	.37	UL/CSA	3	8 ft.	Gray	18/3	SVT	2.95	2.49	2.25	1.75
102023	17501	3-conductor detachable power supply cord	.55	UL/CSA	3	10 ft.	Black	18/3	SVT	3.95	3.49	2.95	2.25
163361	6952299	3-conductor detachable power supply cord	.33	UL/CSA	3	14 ft.	Black	18/3	SJT	4.95	4.49	3.95	2.95
117356	8120-6177	3-conductor detachable right angle power supply cord	.41	UL/CSA	4	6 ft.	Gray	18/3	SVT	3.49	2.95	2.49	1.95
38076	17250R	3-conductor detachable right angle power supply cord	.54	UL/CSA	4	6 ft.	Black	18/3	SVT	3.49	2.95	2.49	1.95
173251	17250RS	3-conductor detachable right angle power supply cord, shielded	.40	UL/CSA	4	6 ft.	Black	18/3	SVT	3.49	2.95	2.49	1.95
177383	17507	3-conductor detachable right angle power supply cord	.66	UL/CSA	4	10 ft.	Black	18/3	SJT	4.95	4.49	3.95	3.49
163416	17608G	3-conductor detachable right angle power supply cord	.36	UL/CSA	4	6 ft.	Gray	16/3	SJT	3.49	2.95	2.49	2.25
172312	8120-5395	3-conductor detachable power supply cord right angle	.73	UL/CSA	4	8 ft.	Black	16/3	SJT	4.95	4.49	3.95	3.49

* *Cordage Type: SPT-1 and SPT-2 (Flat Cord); SJT, SVT and VDE (Round Cord)* • *Thermoplastic Jacket Type: SPT-1: Light duty; SPT-2 : Junior duty; SVT: Light service; SJT: Junior service*

* **Cordage Type:** SPT-1 and SPT-2 (Flat Cord); SJT, SVT and VDE (Round Cord) • **Thermoplastic Jacket Type:** SPT-1: Light duty; SPT-2 : Junior duty; SVT: Light service; SJT: Junior service

Part Number	Product Number	Description	Weight (lbs.)	Agency Approvals	Plug Fig.	Length	Color	AWG	Cord Type*	Pricing 1	10	100	250
84937	17669-6	3-conductor detachable piggy backed computer power cord	.47	UL/CSA	5	6 ft.	Black	18/3	SJT	$5.95	$5.49	$4.95	$4.49
28468	PEC	3-conductor computer power supply extension cord	.36	UL/CSA	6	6 ft.	Black	18/3	SVT	2.95	2.49	1.95	1.75
121291	PEC2	3-conductor computer power supply extension cord	.55	UL/CSA	6	8 ft.	Black	18/3	SJT	3.95	3.49	2.49	2.25
177439	PECBGE	3-conductor computer power supply extension cord	.36	UL/CSA	6	6 ft.	Beige	18/3	SVT	2.95	2.49	1.95	1.75
170157	IS15	3-conductor right angle power supply extension cord	.34	UL/CSA	11	5 ft.	Beige	18/3	SVT	1.95	1.75	1.49	1.15
177447	MPC1	3-conductor monitor power adapter cord	.16	UL/CSA	7	1 ft.	Black	18/3	SVT	1.95	1.75	1.49	1.25
26382	MPC6	3-conductor monitor power adapter cord	.40	UL/CSA	7	6 ft.	Black	18/3	SVT	3.95	3.49	2.75	2.49
177455	MPC10	3-conductor monitor power adapter cord	.52	UL/CSA	7	10 ft.	Black	18/3	SVT	5.95	5.49	4.75	4.25
175855	PECUL10	3-conductor computer power supply extension cord	.53	UL/CSA	6	10 ft.	Black	18/3	SVT	4.95	4.49	3.95	3.49
173892	34J88T-1	3-conductor power cord w/ pigtail hospital grade (green dot)	.65	UL/CSA	12	8 ft.	Black	18/3	SJT	4.49	3.95	3.25	2.95
115078	17006	3-conductor power cord w/ hospital grade male (green dot)	.84	UL/CSA	8	10 ft.	Black	16/3	SJT	5.95	5.49	4.75	4.25
132011	17006G	3-conductor power cord w/ hospital grade male (green dot)	.82	UL/CSA	8	10 ft.	Gray	16/3	SJT	5.95	5.49	4.95	4.49
173884	3472WJ698G	3-conductor power cord w/ hospital grade male rt ang (green dot)	.85	UL/CSA	13	9 ft.	Gray	16/3	SJT	4.95	4.49	3.95	3.49
173796	KC002	3-conductor computer power supply/ ext w/ pigtail	.44	UL/CSA	14	6 ft.	Black	18/3	SJT	2.95	2.49	2.25	1.95

International Power Cords and Adapters

JAMECO® and Hewlett Packard International Power Cords

- Molded connectors
- Voltage rating: 300 volts
- Excellent resistance to jacket abrasion
- IMQ: Instituto Italiano del marchio di Qualita
- BSI: British Standard Institution
- SA: Standards of Australia


173876 Fig. 1

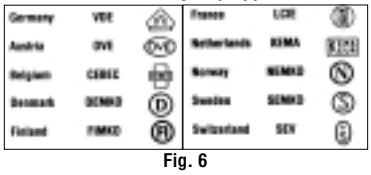

172195 Fig. 2


173841 Fig. 3


174633 Fig. 4


177341 Fig. 5

International Agency Approvals


Fig. 6


A


B


C

Part Number	Product Number	Country	Description	Weight (lbs.)	Agency Approvals	Plug Fig.	Length	Color	AWG Conduction	Cord Type	Pricing 1	10	100	250
173868	2171H576G	Europe	3-conductor detachable power cord	0.4	Fig. 6	1A	6 ft.	Gray	3/.75mm²	H05VVF	$2.95	$2.49	$2.25	$1.95
117911	PCVDE-6B	Europe	3-conductor detachable power cord	0.4	Fig. 6	1A	6 ft.	Black	3/.75mm²	H05VVF	3.95	3.49	2.95	2.49
173876	21H516S	Europe	3-conductor detachable power cord w/ pigtail	0.4	Fig. 6	1C	5 ft.	Black	3/1.0mm²	H05VVF	2.95	2.49	2.25	1.95
138270	H05VVF	Europe	3-conductor detachable power cord	0.4	Fig. 6	1A	6 ft.	Beige	3/1.0mm²	H05VVF/HAR	3.95	3.49	2.95	2.49
147897	CL102	Europe	3-conductor power cord right angle	0.4	Fig. 6	3A	6 ft.	Black	3/.75mm²	H05VVF	3.49	2.95	2.49	2.25
173841	2271H376G	Europe	3-conductor detachable power cord right angle	0.4	Fig. 6	3A	6 ft.	Gray	3/.75mm²	H03VVF	3.49	2.95	2.49	1.95
173850	2271H518G	Europe	3-conductor detachable power cord right angle	0.6	Fig. 6	3A	8 ft.	Gray	3/1.0mm²	H05VVF	3.95	3.49	2.95	2.49
171934	8120-6174	Europe	3-conductor detachable power cord right angle	0.5	Fig. 6	1B	7.5 ft	Beige	3/.75mm²	H05VVF/HAR	2.95	2.49	2.25	1.95
173817	KC-015A	Europe	3-conductor detachable power cord	0.9	Fig. 6	1A	14 ft.	Black	3/1.0mm²	H05VVF	3.95	3.49	2.95	2.49
177341	86559011	India/Africa	3-conductor detachable power cord	0.7	VDE	5A	9 ft.	Black	3/1.0mm²	HAR	5.95	5.49	4.95	4.49
172283	8120-6980	Italy	3-conductor detachable power cord	0.4	AVI/IMQ/CE	2A	6 ft.	Gray	18/3	SVT	2.95	2.49	1.95	1.49
172195	8120-6979	Italy	3-conductor detachable power cord right angle	0.4	IMQ	2B	6 ft.	Gray	18/3	SVT	3.49	2.95	2.49	1.95
174633	21071H5182	UK/Ireland	3-conductor detachable power cord	0.7	ASTA/CE	4A	8 ft.	Black	3/1.0mm²	H05VVF	5.95	5.49	4.49	3.95

JAMECO® International Power Adapters

- Use as power cord replacements for table-top power supplies (see page 89)
- Molded PVC construction • Ergonomic contours
- Removes excess cordage form work area
- **P/N 176188:** NEMA5-15P to IEC-C13; USA
- **P/N 176209:** CEE7 to IEC-C13: European
- **P/N 176196:** BS1363/A to IEC-C13: UK
- **P/N 176217:** Japan to IEC-C13: Japan


176188


176209


176196


176217

Part No.	Description	Rating	Agency	Country	Weight	1	10	100	250
176188	Right angle power adapter	10A @ 115VAC	—	USA	0.1	$1.95	$1.75	$1.49	$1.25
176209	Right angle power adapter	16A @ 250VAC	TUV	Europe	0.2	2.95	2.49	2.25	1.95
176196	Right angle power adapter	13A @ 250VAC	—	UK	0.2	4.49	3.95	3.49	2.95
176217	Right angle power adapter	15A @ 125VAC	—	Japan	0.1	2.49	1.95	1.75	1.49

Power Entry Filters and AC Plug Connectors

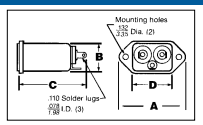


Fig.1 (Solder Terminals)

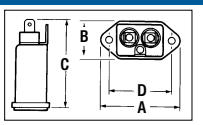


Fig. 2 (Fast-on Terminals)

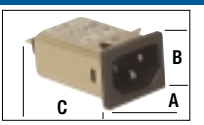


Fig.3 (146907)

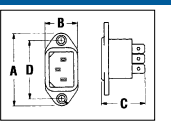


Fig. 4

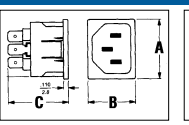
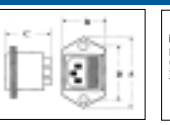


Fig. 5


Fig. 6 (117444)


Fig. 7

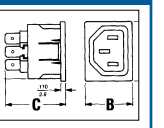


Fig. 8

- Frequency: 50/60Hz
- *Note: Terminal position may vary*

[1] Includes spare fuse holder (Fuse type 5mm x 20mm (250V))

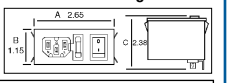


Fig. 9

Part Number	Product Number	Corcom Cross	Description	Fig.	Current (Amps)	Voltage (VAC)	Terminals	Agency Approvals	Terminal Size	Dimension (ins.) A	B	C	D	Weight (lbs.)	Pricing 1	10	100	500
150615	03AC1	3EF1	Power entry filter, straight (flanged)	1	3	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.58	1.58	0.14	$4.49	$3.95	$3.25	$2.95
146907	03DENG3B		Power entry filter (snap-in)	3	3	250	fast-on	UL/CSA/VDE	.25"	1.25	0.95	2.23	N/A	0.14	3.95	3.49	2.95	2.49
40601	03AE1	3EF1F	Power entry filter, straight (flanged)	2	3	250	fast-on	UL/CSA/VDE	.25"	1.97	0.90	2.16	1.58	0.10	4.49	3.95	3.49	2.75
180620	06AR2D		Power entry filter, fused w/ switch (snap-in)	9	4	250	fast-on	UL/CSA/VDE/CE	.25"	2.65	1.15	2.38	N/A	0.30	4.95	4.49	3.95	3.49
42454	06AC1	6EF1	Power entry filter, straight (flanged)	1	6	250	solder	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	0.10	4.95	4.49	3.75	3.49
63132	06AE1	6EF1F	Power entry filter, straight (flanged)	2	6	250	fast-on	UL/CSA/VDE	.16"	1.96	0.88	2.06	1.58	0.10	3.95	3.49	2.95	2.49
167441	10AE1	10EF1F	Power entry filter, straight (flanged)	2	10	250	fast-on	UL/CSA	.25"	1.97	0.89	2.65	1.58	0.15	4.95	4.49	3.95	2.95
165016	SUP-J15G-E-2		Power entry filter straight (flanged)	1	15	250	solder	UL/CSA/VDE	.16"	1.89	0.88	2.18	1.58	0.10	1.95	1.75	1.49	1.25
16651	JR101		AC plug connector (male) flanged	4	15	250	fast-on	UL/CSA/VDE	.187"	1.96	0.89	1.07	1.58	0.03	.75	.59	.49	.39
147900	P0707		AC plug connector (male) flanged	4	15	250	solder	UL/CSA/VDE	.16"	1.96	0.89	1.04	1.58	0.03	.75	.59	.49	.39
147109	42R02		AC plug connector (male) snap-in	5	15	250	fast-on	UL/CSA/VDE	.25"	1.22	0.94	1.13	N/A	0.03	.89	.69	.55	.45
173770	6200-21		AC plug connector (male) fused (flanged)	7	10	250	fast-on	UL/CSA/VDE	.136"	1.73	1.34	1.00	1.41	0.03	1.25	.99	.85	.65
117444	0717		AC plug connector (male) fused (snap-in)[1]	6	10	250	fast-on	UL/CSA/VDE	.187"	1.22	1.33	1.22	N/A	0.04	1.49	1.35	1.09	.99
177332	PF1125		AC plug connector (male) fused (snap-in)[1]	6	10	250	fast-on	UL/CSA/VDE	.25"	1.22	1.34	1.24	N/A	0.04	1.49	1.35	1.09	.99
171563	P3520		AC power outlet (female) flanged	4	6	250	solder	UL/CSA/VDE	.11"	1.97	1.14	1.32	1.58	0.04	.65	.55	.39	.32
174246	SC11		AC power outlet (female) flanged	4	15	250	fast-on	UL/CSA/VDE	.187"	.197	1.17	1.34	1.58	0.04	.89	.69	.55	.45
164970	P695		AC power outlet (female) snap-in	6	10	250	fast-on	UL/CSA/VDE	.25"	1.39	1.09	1.40	N/A	0.04	.65	.49	.35	.29

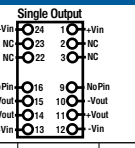
DC Power Converters

2.3 Watt Traco Series DC to DC Converter

Volgen is an ISO-9002 Certified Company

- 2:1 wide input range
- 24-pin DIP package
- SMD technology with ceramic capacitor





Part Number	Product Number	Efficiency (%)	Input Voltage Range (VDC)	Output Voltage (VDC)	Current (mA)	Wattage (W)	Pins	Size L" x W" x H"	Wt. (lbs.)	1	10	25
168161	TEF4810	82	36–72	+3.3	700	2.3	12	1.3 x 0.8 x 0.4	0.04	$9.95	$8.95	$7.95

3-30 Watt DC to DC Converters

Mean Well is an ISO-9002 Certified Company

- Short circuit/overcurrent protection
- One year warranty

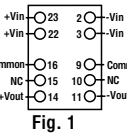


Fig. 1

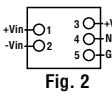


Fig. 2

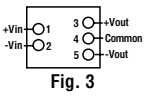


Fig. 3

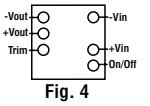


Fig. 4

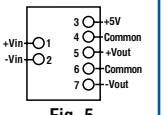


Fig. 5

Part Number	Product Number	Fig.	Wattage (W)	Input Voltage Range (VDC)	Output Voltage (VDC)	Ripple p-p (mV)	Output Current (mA)	Pins	Size L" x W" x H"	Wt. (lbs.)	1	10	25
155918	DCW03A-05	1	3	9-18	+5 / -5	100	300	8	1.2 x 0.7 x 0.5	0.04	$19.95	$17.95	$15.95
161701	DCW03A12	1	3	9-18	+12 / -12	100	125	8	1.3 x 0.8 x 0.5	0.05	19.95	17.95	16.95
155715	SKE15A05	2	15	9-18	+5	50	3000	4	2.0 x 2.0 x 0.4	0.2	27.95	24.95	22.49
155707	SKE15A12	2	15	9-18	+12	60	1250	4	2.0 x 2.0 x 0.4	0.2	27.95	24.95	22.49
155694	SKE15A24	2	15	9-18	+24	80	625	4	2.0 x 2.0 x 0.4	0.1	27.95	24.95	19.95
161728	DKE15A12	3	15	9-18	+12 / -12	60	625	5	2.0 x 2.0 x 0.4	0.2	29.95	26.95	23.95
155723	TKE25AB	5	25	9-18	+5 / +12 / -12	60 / 80	4000 / 250	8	2.9 x 2.7 x 0.9	0.5	39.95	35.95	32.95
171344	PM3012S05	4	30	9-18	+5	75	6000	8	3.0 x 2.5 x 0.4	0.2	19.95	17.95	14.95

JAMECO 140 Watt AC Power Inverter

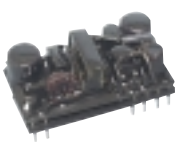
240VAC Output



- Input voltage: 12V nominal (10-15V range)
- Applications: use to operate TV's and VCR's; portable computers; household appliances, and power tools
- Input connector: Auto power plug
- Output voltage: 240V / 140Watt continuous
- Output connector: 2-prong receptacle
- Size: 7.4"L x 2.6"W x 1.7"H
- Weight: 1.3 lbs.

Part No.	Description	Price
180814	AC power inverter	$39.95

PCA 3 Watt DC to DC Converter



- Input/output isolation @ 500Vrms
- 70% typical efficiency
- 12-pin (use socket P/N 39351 – pg 54)
- Size: 1.2"L x 0.7"W x 0.5"H
- Weight: 0.02 lbs.

Output: +9VDC @ 250mA

Part No.	Product No.	Input Voltage	1	10	100
153736	EPC1053	12VDC	$1.95	$1.75	$1.25

ASTEC 21 Watt DC to DC Power Converter



- Input: 16VDC (max.)
- Output signals for battery-low and battery-in-use
- Mating input conn.: P/Ns 100802/103202 (pg 56)
- Mating output conn.: P/Ns 103211/103202 (2) – pg 56
- Recharges battery from external source
- Size: 3.6"L x 1.6"W x 0.8"H
- No minimum load required
- Wt.: 0.1 lbs.

Output:
+ 5.1 VDC @ 3.75A,
+12 VDC @ 0.1A,
- 26 VDC @ 0.04A,
350 VAC @ 5mA

Part No.	Product No.	Description	1	10
109276	AA9090A	21 watt converter	$4.95	$4.49

Power Transformers

Power transformers have both single and dual voltage input and center tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier, and filter circuits.

- Primary: 115VAC, 115/230VAC 50/60Hz * Center tap

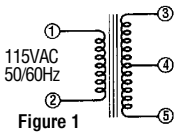


Figure 1

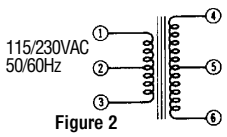
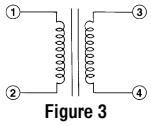
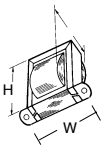


Figure 2


Figure 3



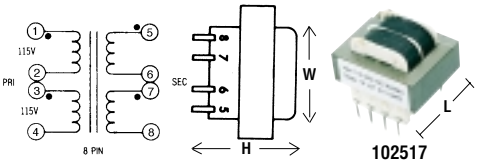

29225

Part Number	Product Number	Traid Cross	Input Voltage	Input Color Code			Output Voltage	Output Color Code*			Lead Type	Fig.	Dimensions (Ins.) L"	W"	H"	Weight (lbs.)	Pricing 1	10	100
29225	XFR122	F44X	115VAC	Yellow	—	Yellow	12.6VCT @ 2A	Blue	Red*	Black	Wire	1	2.12	2.33	1.96	1.5	$7.95	$6.95	$5.95
102120	XFR124	F181U	115VAC	Black	—	Black	12.6VCT @ 4A	White	Black*	White	Wire	1	2.53	3.08	2.61	2.7	9.95	8.95	7.95
112512	XFR242N	F229X	115VAC	Black	—	Black	24VAC @ 2A	White	—	White	Wire	3	1.75	2.75	2.25	1.8	7.95	6.95	5.95
99653	XFR242	—	115VAC	Red	—	Red	24.6VCT @ 2A	Blue	Yellow*	Blue	Wire	1	2.44	2.70	2.30	2.5	7.95	6.95	6.25
168524	XFR252	F41X	115VAC	Black	—	Black	25.2VCT @ 2A	Red	Red	Red	Wire	1	2.35	4.00	2.61	2.2	6.95	6.25	4.95
102162	XFR6102	F314X	115/230VAC	Black	Yellow*	Red	6.3VCT @ 2A	White	Black*	White	Wire	2	1.56	1.96	1.67	0.8	5.95	5.35	4.79
105523	XFR0910	—	115/230VAC	Black	White*	Red	9VCT @ 1A	Blue	Black*	Blue	Wire	2	1.79	1.96	1.66	0.7	5.95	5.35	4.79
102154	XFR1220	F344X	115/230VAC	Black	Yellow*	Red	12.6VCT @ 2A	White	Black*	White	Wire	2	2.35	2.32	1.97	1.5	7.95	6.95	5.95
149770	XFR1240	F3181U	115/230VAC	Black	Red*	Yellow	12.6VCT @ 4A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.2	9.95	8.95	7.95
105531	XFR1810	—	115/230VAC	Blue	Red*	Black	18VCT @ 1A	Yellow	Black*	Yellow	Wire	2	2.32	2.05	1.90	1.2	6.95	6.25	5.59
149956	XFR1820	—	115/230VAC	Black	Red*	Yellow	18VCT @ 2A	White	Black*	White	Wire	2	2.26	2.66	2.28	1.8	7.95	6.95	5.95
102111	XFR2410	F346X	115/230VAC	Black	Yellow*	Red	24VCT @ 1A	White	Black*	White	Wire	2	2.22	2.33	1.97	1.5	6.95	6.25	5.59
102103	XFR2520	F341X	115/230VAC	Black	White*	Red	25.2VCT @ 2A	Orange	Black*	Orange	Wire	2	2.45	2.67	2.26	2.8	9.95	8.95	7.95
149796	XFR2820	F3185U	115/230VAC	Black	Red*	Yellow	28VCT @ 2A	White	Black*	White	Wire	2	2.45	2.70	2.24	2.3	9.95	8.95	7.95

Split-Bobbin Power Transformers

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 115/230VAC 50/60Hz
- PC terminal pin spacing for accurate placement

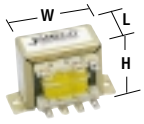


102517

Part Number	Product Number	Traid Cross	Input Voltage	VA Cap	Individual Output	Parallel Output	Series Output	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10
102517	XFR1602SB	FS16150	115/230	2.4	8V@ .15A	8V@ .30A	16VCT@ .15A	1.17	1.38	1.20	0.3	$5.95	$5.35
157702	EU06-2-010	FS10600	120/240	6.0	5V@ .60A	5V@ 1.20A	10VCT@ .60A	1.50	1.88	1.04	0.3	4.95	4.49
157711	EU06-2-020	FS20300	120/240	6.0	10V@ .30A	10V@ .60A	20VCT@ .30A	1.48	1.88	1.08	0.3	2.95	2.25
176090	SPT41240-120	FS24250	115/230	6.0	12V@ .25A	12V@ .50A	24VCT@ .25A	1.33	1.63	1.59	0.5	5.95	5.35
102533	XFR1205SB	FS12500	115/230	6.3	6.3V@ .50A	6.3V@ 1.00A	12.6VCT@ .50A	1.31	1.62	1.30	0.4	5.95	5.35
102592	XFR2405SB	FS24500	115/230	12.0	12V@ .50A	12V@ 1.00A	24VCT@ .50A	1.58	1.90	1.46	0.7	5.95	5.35

Quick Connect Power Transformers

- Quick connect transformers are bobbin wound for smaller size and reduced electrostatic shielding requirements • Terminals: quick connect, solder
- Input voltage: 115/230VAC, 50/60Hz



104387

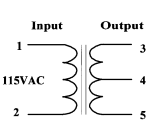


Fig. 1

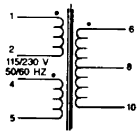


Fig. 2

Part Number	Product Number	Traid Cross	Fig.	Input Voltage	Output Voltage	VA Cap	Size of Connect	Dimensions L"	W"	H"	Wt. (lbs.)	Pricing 1	10
164110	241-3-10	F310	1	115VAC	10VCT@ 0.25A	2.4	0.187"	.59	1.45	2.00	0.2	$2.95	$2.25
104387	XFR1225Q	FD612	2	115/230VAC	12.6VCT@ 2.5A	31.5	0.187"	1.75	2.33	2.00	1.3	8.95	7.95
104408	XFR1635Q	FD716	2	115/230VAC	16VCT@ 3.5A	56.0	0.187"	2.00	2.70	2.30	1.8	9.95	8.95
101864	XFR2424Q	FD724	2	115/230VAC	24VCT@ 2.4A	57.6	0.187"	1.87	2.70	2.25	1.7	8.95	7.95
176102	XFR2440Q	FD824	2	115/230 VAC	24VCT@ 4.0A	96.0	0.187"	1.74	3.10	2.62	3.6	12.95	11.49
104416	XFR3615Q	FD736	2	115/230VAC	36VCT@ 1.5A	54.0	0.187"	1.90	2.70	2.30	1.8	8.95	7.95

Use European appliances w/ U.S. receptacles!

50 to 1500 VA Step-Up / Step-Down Transformers

- Allows primary power flexibility when buying or designing equipment for the worldwide market place
- Wide selection to meet your design requirements


Fig. 1


Fig. 2



Fig. 3

Part Number	Product Number	Fig	Power (VA)	Primary Voltage	Secondary Voltage	Dimensions H"	W"	D"	Weight (lbs.)	Pricing 1	10	100
99573	AC110V50	1	50	220VAC	110VAC	2.50	1.63	1.33	0.7	$5.95	$5.35	$4.79
85016	AC110V300	3	300	220VAC	110VAC	3.50	3.05	3.95	4.8	24.95	22.49	19.95
111851	AC110V500	2	500	220VAC	110VAC	3.99	3.60	4.84	8.5	31.95	28.95	25.95
142906	AC110V1500	2	1500	220VAC	110VAC	5.25	4.50	5.75	15.2	69.95	59.95	56.95
99477	AC220V50	1	50	110VAC	220VAC	2.50	1.63	1.33	0.7	5.95	4.95	4.79
85008	AC220V300	3	300	110VAC	220VAC	3.50	3.05	3.95	4.8	24.95	22.49	19.95

Triad 200VA Step-Down Auto Transformer

- 200 VA
- Primary voltage: 220VAC (50-500Hz)
- Secondary voltage: 110VAC (200VA)
- 3" lead wire
- Type U case style
- Size: 2.9"W x 2.4"D x 3.4"H
- Weight: 3.6 lbs.



Part No.	Product No.	1	10	100
175100	N6U	$19.95	$17.95	$15.95

JAMECO 110VAC Isolated Transformer

300VA (Watts)

- Input voltage: 120VAC @ 60Hz
- Input connector: 5.5' cord with 2-prong plug
- Output voltage: 120VAC @ 2.5A (Isolated)
- Size: 4.2"H x 3.2"W x 4.6"D
- Weight: 7.0 lbs.



Part No.	Product No.	1	10	100
181315	ITR300	$34.95	$31.49	$27.95

Condor International 12 Watt Table-Top DC Power Supply

- Input voltage: 230VAC @ 50Hz
- **Output voltage: +12VDC @ 1A**
- Input connector: 3-prong female connector with 6.5" cable
- Mating input connector: 3-conductor detachable power cord, pg 80 or International power cords, pg 81
- Output connector: 2.1mm x 5.5mm center positive female connector • *Complete specs see page 91*



Part No.	Product No.	1	10	50
175450	PSDG121A-230	$8.95	$7.95	$6.95

See pages 90-91 for more Table-Top Power Supplies

AVEL Dual Output Toroidal Transformers

- Input voltage: 115/230VAC @ 47/400Hz
- 13% load regulation
- Secondary voltage tolerance: within 3% at nominal input and full load
- 8-32 mounting hole (top and bottom)

✳ **171395:** Input voltage: 120V/240VAC

† **171310:** Output voltage: 15VAC @ 0.66A; 36VAC @ 1.1A


Wire


Terminal

Part Number	VA	Output Voltage	Output Terminals	Output (VAC @ A) Parallel	Output (VAC @ A) Serial	Size (D"xH")	Wt. (lbs)	Pricing 1	Pricing 10	Pricing 25
170448	15	6VAC @ 1.25A	Terminals	6 @ 2.50	12 @ 1.25	2.5 x 1.3	0.8	$6.95	$5.95	$4.95
170704	30	6VAC @ 2.5A	16" Wire	6 @ 5.00	12 @ 2.50	3.3 x 1.3	1.4	7.95	6.95	5.95
170747	30	6VAC @ 2.5A	Terminals	6 @ 5.00	12 @ 2.50	3.1 x 1.4	1.3	7.95	6.95	5.95
168372	15	9VAC @ 0.83A	12" Wires	9 @ 1.66	18 @ 0.83	2.7 x 1.2	0.9	8.95	7.95	6.95
170405	15	9VAC @ 0.83A	Terminals	9 @ 1.66	18 @ 0.83	2.5 x 1.3	0.8	6.95	5.95	5.49
170755	30	9VAC @ 1.67A	Terminals	9 @ 3.34	18 @ 1.67	3.2 x 1.4	1.4	7.95	6.95	5.95
170771	50	9VAC @ 2.8A	16" Wire	9 @ 5.60	18 @ 2.80	3.7 x 1.5	2.1	7.95	6.95	5.95
170819	50	9VAC @ 2.8A	Terminals	9 @ 5.60	18 @ 2.80	3.6 x 1.5	2.0	7.95	6.95	4.95
171336	50	12VAC @ 2.0A	Terminals	12 @ 4.00	24 @ 2.00	3.6 x 1.6	1.9	7.95	6.95	5.95
170843	90	12VAC @3.75A	12" Wires	12 @ 7.50	24 @ 3.75	4.0 x 1.7	3.0	10.95	9.95	8.95
171310	50	15VAC @ 0.66A†	Terminals	—	—	3.6 x 1.5	2.1	6.95	5.95	5.49
171328	30	20VAC @ 0.75A	Terminals	20 @ 1.50	40 @ 0.75	3.3 x 1.4	1.3	7.95	6.95	5.95
163889	50	20VAC @ 1.25A	Terminals	20 @ 2.50	40 @ 1.25	3.6 x 1.5	2.0	9.95	8.95	7.95
171395	50	20VAC @ 1.25A ✳	Terminals	20 @ 2.50	40 @ 1.25	3.7 x 1.5	2.0	7.95	6.95	5.95
168364	130	35VAC @ 0.85A	22" Wires	35 @ 1.70	70 @ 0.85	4.7 x 2.0	4.1	9.95	8.95	7.95

CUI STACK 600Ω Modem Coupling Transformer

600Ω / 600Ω



- Impedance (primary/secondary): 600Ω/600Ω
- Resistance (primary/secondary): 87Ω/108Ω
- Measuring frequency: 1KHz, 1VDC bias 90mA
- Frequency response: ±2dB @ 300-600Hz; ±0.75dB @ 600-3500Hz • Weight: 0.1 lbs.

Part No.	Product No.	1	10	100
167169	TL1919	$1.25	$.99	$.75

ISOSENSE Over Current Detectors, Evaluation Boards, And Accessory BusBar

Specs for Over Current Detectors

- Supply voltage: -1.0 to 25VDC
- Supply current: 10mA maximum
- Operating temp.: -40˚C to 125˚C
- Output trip time: 1uS
- Output on voltage: 0.15VDC typical (VDC sinking 20mA)
- Output on current: 20mA
- **181614:** Trip current: 50A@25˚C
- **181622:** Trip current: 125A@25˚C
- **181631:** 50A evaluation board
- **181649:** 125A evaluation board
- **181657:** 75A current bar sensor


181622


181649


181657

Part No.	Product No.	Description	1	10	100
181614	9001-050	Current detector	$7.95	$6.95	$6.25
181622	9001-125	Current detector	7.95	6.95	6.25
181631	9001-050EVB	Evaluation brd	19.95	17.95	15.95
181649	9001-125EVB	Evaluation brd	19.95	17.95	15.95
181657	9002-001	Current bar sensor	.79	.69	.59

JAMECO 5VA and 10VA Current Class 1 Transformers

Accuracy: Class 1

This series can be applied to test, control, display, and record the running of electrical equipment, and to protect the equipment against damage in the AC circuit.


174887

- **174887:** ratio 200A/5A; 5VA
- **174895:** ratio 400A/5A; 10VA
- Maximum voltage: 660VAC
- Frequency: 50/60Hz
- Includes mounting bracket and hardware
- Size: 3.0"L x 3.2"W x 1.6"Thick
- Weight: 1.1 lbs.

Part No.	Prod. No.	VA (watts)	1	10	100
174887	MSQ30	5	$3.95	$3.49	$2.95
174895	MSQ40	10	4.95	4.49	3.95

Valcor ISDN Transformer



- DC resistance: pins 2 and 7: 13.5Ω; pins 5 and 4: 7.5Ω; pins 6 and 3: 9.5Ω (max.)
- Turns ratio: 1:75
- Dielectric withstanding voltage: 60Hz, 1 min. 200Vrms

Part No.	Product No.	1	10	100
172081	PT4084	$1.35	$1.09	$.89

Variable AC Transformers

500-2000VA


121275

- Input: 110VAC or 220VAC
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch

Part No.	Fuse	Size (L" x W" x H")	Wt. (lbs.)
121275	3A/250V (P/N 69438)	5.3 x 7.3 x 7.0	10.4
129007	5A/250V (P/N 10401)	9.4 x 6.5 x 7.7	14.8
152581	10A/250V (P/N 69462)	9.0 x 7.0 x 7.7	19.8

Part No.	Description	1	5
121275	500VA variable transformer	$79.95	$69.95
129007	1000VA variable transformer	119.95	99.95
152581	2000VA variable transformer	159.95	143.95

Variable AC Transformer

320VA



- Input voltage: 110VAC @ 60Hz (using pin 1-2) 110VAC @ 50Hz (using pin 1-4)
- Matching input/output terminals: P/N 103667 and 109111 (disconnect .25" solderless terminals) – pg 59
- Includes 3 disconnect .25" solderless terminals
- Maximum current: 2.5A • Panel mount
- Size: 2.8"Dia. x 2.1"H • Shaft length: 0.5"
- Weight: 2.5 lbs. • One-year warranty

Part No.	Product No.	Description	1	10
149323	PSV203	320VA variable	$44.95	$39.95

AEEC 500/2000 Watt Variable AC Transformers


169640


169658

- 60Hz
- Input voltage: 110VAC
- Output voltage: 0 to 130VAC
- Input connector: 3-prong plug with 5' cord
- Output connector: 3 prong outlet type
- Output analog voltmeter
- Lighted on - off power switch

169640: • 5A @ 250V fuse
- Size: 8.3"L x 6.5"W x 7.0"H
- Weight: 15.6 lbs.

169658: • 18A @ 250V fuse
- Size: 9.8"L x 8.0"W x 7.0"H
- Weight: 26.5 lbs.

Part No.	Description	1	10
169640	500W variable transformer	$59.95	$53.95
169658	2000W variable transformer	119.95	107.95

Variable AC Transformer



- Input voltage: 110VAC @ 60Hz
- Output voltage: 0-140VAC
- Panel mount • 550VA
- Rated current: 5A
- Input/output terminals: binding post with 0.188" diameter post
- One-year warranty
- Size: 4.3"Dia. x 4.0"H
- Weight: 6.8 lbs.

Part No.	Product No.	Description	1	10
152936	PSV264	550VA variable	$69.95	$62.95

Audio Transformers

- Vacuum wax impregnated
- Insulation resistance: 100MΩ
- Hipot tested: 100VAC • Weight: 0.3 lbs.
- ±20% impedance matching
- ±20% DC resistance matching



105902

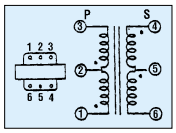


Fig. 1

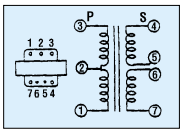


Fig. 2

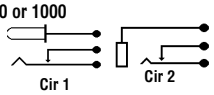
Part Number	Product Number	Color	Fig.	Impedance (Ω) Primary	Impedance (Ω) Secondary	Resistance (Ω) Pri.	Resistance (Ω) Sec.	Core Type	Dimensions H"	Dimensions W"	Dimensions D"	Pricing 1	Pricing 10	Pricing 100
125356	XFR6006A14	Blue	1	600CT	600CT	65	55	EI-14	0.43	0.57	0.55	$1.49	$1.25	$.99
125401	XFR60066A14	Blue	2	600CT	600/600	72	56/56	EI-14	0.43	0.57	0.55	1.49	1.25	.99
105902	XFR6006A19	Blue	1	600CT	600CT	65	55	EI-19	0.63	0.79	0.75	1.25	1.09	.89
170077	TL018	Green	1	7000CT	1000CT	400	385	EI-14	0.45	0.59	0.50	1.09	.89	.75

Power Jacks (Male & Female)

- Connections do not include nuts
- Use with mating power plugs (below)
- Dimensions do not include barrel
- Weight: .01 lbs. **† Krinkle leads**

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Terminals	Code
Solder eyelet	A
PC board	B
Mounting	**Code**
Panel	C
PCB	D
Panel & PCB	E
Cable	F



Cir 1 Cir 2



Cir 3



Type 1 Type 2 Type 3 Type 4 Type 5



Type 6 Type 7 Type 8 Type 9 Type 10

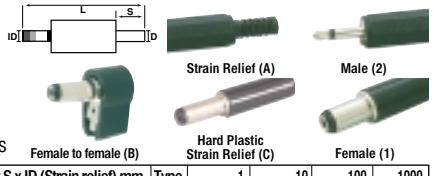


Type 11 Type 12 Type 13 Type 14 Type 15

Part Number	Product Number	Description (Jack)	Dimensions H x W x D (mm)	Type/ Mount	Cir/ Terminals	Mating Plug (below)	1	10	100	1000
169498	PJ0253	2.5 mm female	9.0 x 7.9 x 10.8	3E	2A	2.5 mm male	✳	$.19	$.12	$.09
145648	PJ0351	3.5 mm female	9.7 x 10.0 x 15.5	7D	2A	3.5 mm male	.39	.32	.25	.19
164953	PJ0351N	3.5 mm female	9.9 x 10.2 x 15.4	13D	2A	3.5 mm male	✳	.22	.15	.10
101143	PJ0352	3.5 mm female	10.0 x 10.0 x 18.5	3E	2A	3.5 mm male	.35	.29	.22	.17
109495	PJ035PM	3.5 mm female	10.5 x 9.0 x 8.8	4C	2A	3.5 mm male	.39	.32	.25	.19
165729	PJ0354	3.5 mm female	8.9 x 5.7 Dia.	14C	2A	3.5 mm male	.39	.32	.25	.15
101194	PP024	1.3 mm male	6.0 x 6.0 x 9.0	10D	1B	1.3 mm female	.45	.35	.25	.22
109508	PJ021PCB	2.1 mm male	9.0 x 12.7 x 15.8	5D	1A	2.1 mm female	✳	.12	.09	.07
101178	PP014	2.1 mm male	10.9 x 9.0 x 14.5	1D	1A	2.1 mm female	.45	.35	.29	.19
137672	PP013	2.1 mm male	10.9 x 9.0 x 14.5	6D	3A	2.1 mm female	.45	.35	.29	.22
151589	DPJ-02IA	2.1 mm male	13.0 x 12.6 Dia.	9C	1A	2.1 mm female	.69	.59	.49	.39
151554	DPJ-026A	2.1 mm male	15.1 x 8.0 Dia.	8E	1A	2.1 mm female	.99	.79	.69	.59
159610	PJ1014A	2.1 mm male	35.8 x 12.6 Dia.	15F	A	2.1 mm female	.89	.75	.65	.49
109428	PJ025PCB	2.5 mm male	8.0 x 12.0 x 9.6	5D	1A	2.5 mm female	✳	.09	.05	.02
101186	PP014A	2.5 mm male	11.0 x 9.0 x 14.5	1D	1A	2.5 mm female	.39	.32	.25	.19
167177	PP014AK	2.5 mm male	10.9 x 9.0 x 14.1	1D	1A†	2.5 mm female	✳	.25	.19	.15
102091	PP15A	2.5 mm male	20.4 x 9.3 x 11.7	2C	1A	2.5 mm female	✳	.22	.15	.10
156806	CS1023	2.5 mm male	13.5 x 9.4 x 12.8	11C	1A	2.5 mm female	✳	.12	.10	.08
151562	DPJ-026	2.5 mm male	15.1 x 8.0 Dia.	8E	1A	2.5 mm female	.89	.75	.65	.49
161648	PJ003B	2.5 mm male	8.53 x 10.6 Dia.	12D	1B	2.5 mm female	✳	.12	.10	.08
159505	PJ1015A	2.5 mm male	35.8 x 12.6 Dia.	15F	A	2.5 mm female	.89	.75	.65	.49

Power Plugs (Male & Female)

- **Use with mating power jack found in table (above)**
- Solder eyelets 1mm diameter • Plastic screw-on housing
- Use with AC/DC wall transformers (pgs 86-88)
- Use 24 AWG 2 conductor wire, P/N 100280, to make custom length power cables (pg 63) • Weight: .01 lbs. • Shield crimp tabs



Strain Relief (A) Male (2) Female to female (B) Hard Plastic Strain Relief (C) Female (1)

Part No.	Product No.	Description (Plug)	L x D x S x ID (Strain relief) mm	Type	1	10	100	1000
71191	PP137	1.3 mm x 3.5 mm female plug	44.0 x 8.9 x 9.5 x 4.6	1A	$.55	$.45	$.35	$.29
28759	PP049	2.1 mm x 5.5 mm female (P205) plug	40.5 x 8.6 x 9.5 x 4.1	1A	.45	.35	.29	.22
147328	PP049L	2.1 mm x 5.5 mm female (P205L) plug	47.0 x 9.3 x 14.0 x 4.5	1A	.45	.35	.29	.22
138587	PJ021R	2.1 mm x 5.5 mm female right angle plug	23.0 x 12.0 x 12.5 x 4.2	1B	.69	.59	.39	.35
168241	PP109N	2.5 mm x 5.5 mm female	36.9 x 8.2 x 22.0 x 3.8	1C	.45	.35	.29	.17
28767	PP109	2.5 mm x 5.5 mm female (P206) plug	40.0 x 8.3 x 9.5 x 4.1	1A	.45	.35	.29	.22
147336	PP109L	2.5 mm x 5.5 mm female (P206L) plug	47.0 x 9.1 x 14.0 x 4.5	1A	.45	.35	.29	.17
101135	PJ1025	2.5 mm male (P201) plug	44.0 x 10.0 x 11.3 x 4.1	2A	.32	.25	.22	.19
147459	PJ1025L	2.5 mm male (P201L) plug	49.0 x 10.0 x 11.3 x 4.5	2A	.35	.29	.19	.15
101151	PJ1035	3.5 mm male (P202) plug	52.0 x 10.0 x 14.4 x 4.4	2A	.45	.35	.29	.19
147344	PJ1035L	3.5 mm male (P202L) plug	52.0 x 10.0 x 14.5 x 5.0	2A	.45	.35	.29	.22

COILCRAFT Current Sensing Transformer

1 Volt / 1 Amp



- Sensed current max.: 10A
- Sensitivity voltage (Vout): 1
- Sensitivity current (Iin): 1A
- Frequency range: 20-50KHz
- Turns: 50 • Inductance: 50mH
- Terminating resistor: 50Ω
- Size: 0.77"L x 0.57"W x 0.75"H • Weight: 0.02 lbs.

Part No.	Product No.	1	10	100
154659	CS4050V	$1.95	$1.75	$1.25

JAMECO Current Sensing Transformer

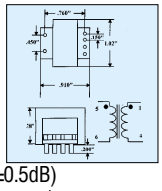
1 Volt / 1 Amp



- Max. current: 300mA (terminals 1 & 3)
- Sensitivity voltage (Vout): 1 • Turns: 60
- Sensitivity current (Iin): 1 • Frequency range: 10-50KHz
- Inductance: 5mH • Terminating resistance: 50Ω
- Size: 0.8"H x 0.7"W x 0.4"T • Weight: 0.01 lbs.

Part No.	Product No.	1	10	100
164718	MTC30101	$1.75	$1.49	$1.25

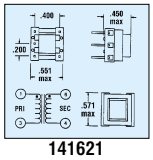
PREM Voice/ Data Coupling Transformer



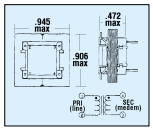
- Impedance (primary/secondary): 600Ω/ 600Ω
- Resistance (primary/secondary): 63Ω/ 88Ω • Turns ration (±2%)
- Frequency response: 300-3500Hz (±0.5dB)
- Dielectric strength: 1500VAC (pri-sec core)
- Max DC unbal: 60mA • Weight: 0.1 lbs.

Part No.	Product No.	1	10	100
164128	SPT115	$.99	$.75	$.49

Midcom Modem Coupling Transformers



141621



117760

- Pri./sec. impedance: 600Ω
- Dielectric strength: 1250VAC
- UL/CSA approved

141621: Jameco

- Insertion loss: 1.25dB @ 1kHz
- Resistance: primary (46.5Ω); secondary (67.6Ω)

117760: Midcom

- DC current: 30mA
- Insertion loss: 2.5dB @ 1kHz
- Resistance: primary (108Ω); secondary (120Ω)

173921: • Insertion toss: 0.75dB ± .25 dB @ 1KHz

- DC resistance: (25.1Ω) primary; (20.3Ω) secondary

Part No.	Product No.	1	10	100
141621	671-8255 (Jameco)	$1.95	$1.75	$1.49
117760	671-8014 (Midcom)	1.95	1.75	1.49
173921	671-8000 (Midcom)	1.49	1.25	.99

MagneTek Current Sensing Transformers



20KHz to 200KHz

- Designed for switching power supply applications
- Reliable and operate effectively over the frequency range of 20KHz to 200KHz
- Used to detect current passing through a conductor
- Constructed of UL rated 130°C materials

Part No.	ET VuSEC (20KHz)	Turns Count	Min. Ind. (mH)	DCR Max. (Ω)	Pri. Amps (RMS)
168786	4000	200	56.0	3.50	80.0
168778	6000	300	130.0	12.40	70.0
168794	500	50	3.5	.34	35.0

Part No.	Product No.	1	10	100
168786	CST206-2A	$.85	$.69	$.59
168778	CST206-3T	.85	.69	.59
168794	CST306-1T	.85	.69	.59

AC Wall Transformers


102234


100108

We specialize in Wall Transformers – call for additional OEM PRICING.

AC to AC Wall Transformers (Input: 120VAC 60Hz)

• Current rating to 2.4 amp

Can change any power plug (see page 85) on any AC wall transformer listed (100 pcs. min.)


10081


10102

Part Number	Product Number	Output Rating Voltage	Output Rating Current	Output Plug / Polarity ID x OD (mm) Plug Type	Dimensions (in.) H	W	D	Case Color	DC Cord Length (ft.)	Wt. (lbs.)	UL Listed CSA/CUL Approved	Pricing 1	10	50	100
101127	DFX10096B	7 VAC	1500 mA	2.5 mm x 5.5 mm female	1.88	2.20	1.95	Black	7' 6"	0.8	UL, CSA	$4.95	$4.49	$3.95	$3.25
163310	43-3003	9 VAC	50 mA	2.1 mm x 5.5 mm female	2.20	1.75	1.45	Black	6'	0.3	UL, CUL	1.95	1.75	1.49	1.25
100061	AC905F1★	9 VAC	500 mA	2.1 mm x 5.5 mm female	2.35	1.95	1.56	Black	6'	0.6	UL, CSA	4.49	3.95	3.49	2.95
119204	A41090800	9 VAC	800 mA	2.1 mm x 5.5 mm female	2.55	1.91	1.74	Black	6'	0.6	UL	3.95	3.49	2.95	2.49
120141	AC908M3	9 VAC	800 mA	3.5 mm male	2.55	1.91	1.74	Black	6'	0.5	UL	3.95	3.49	2.95	2.49
102234	AC910F1★	9 VAC	1000 mA	2.1 mm x 5.5 mm female	3.20	2.24	1.93	Black	6'	0.6	UL, CSA	5.49	4.95	4.49	3.95
157041	41A9-1000	9 VAC	1000 mA	2.5 mm x 5.5 mm female	2.06	2.12	1.63	Black	6'	0.6	UL, CSA	5.49	4.95	4.49	3.95
112336	AC915F5★	9 VAC	1500 mA	2.5 mm x 5.5 mm female	2.50	2.20	1.96	Black	6'	0.9	UL	7.95	7.25	6.49	5.79
167089	N3511-1215-AC	12 VAC	150 mA	2.1 mm x 5.0 mm female	2.28	1.78	1.46	Black	6'	0.3	UL, CSA	2.95	2.49	2.25	1.95
101258	41A12-500★	12 VAC	500 mA	2.1 mm x 5.5 mm female	2.76	1.97	1.60	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.25
147361	W41AJ700	12 VAC	700 mA	2.5 mm x 5.5 mm female	2.56	1.94	1.74	Black	6'	0.6	UL, CSA	2.95	2.69	2.49	1.95
10081	AC1210F1★	12 VAC	1000 mA	2.1 mm x 5.5 mm female	2.56	2.39	1.99	Black	6'	0.7	UL, CSA	5.49	4.95	4.49	3.95
100167	AC1210F5	12 VAC	1000 mA	2.5 mm x 5.5 mm female	3.20	2.41	2.00	Black	6'	0.7	UL, CSA	5.49	4.95	4.49	3.95
10428	AC1210M3★	12 VAC	1000 mA	3.5 mm male	2.60	2.40	1.97	Black	6'	0.6	UL, CUL	5.49	4.95	4.49	3.95
167151	AC1215F1	12 VAC	1500 mA	2.1 mm x 5.5 mm female	3.23	2.24	1.89	Black	6'	1.1	UL, CSA	5.49	4.95	4.49	3.95
153761	DC1216M3	12 VAC	1600 mA	3.5 mm male	2.50	2.21	1.92	Black	6'	0.9	UL	5.95	5.35	4.79	4.25
171408	AC1405F1	14 VAC	500 mA	2.1 mm x 5.5 mm female	2.76	1.97	1.60	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
171854	DV1485AC	14 VAC	850 mA	2.5 mm x 5.5 mm female rt angle	3.00	1.95	1.69	Black	6'	0.7	UL, CUL	3.95	3.49	2.95	2.49
100108	AC1610F1★	16 VAC	1000 mA	2.1 mm x 5.5 mm female	2.50	2.35	1.95	Black	6'	0.9	UL, CSA	8.95	7.95	6.95	5.95
163053	035-0165	16 VAC	1100 mA	2.5 mm x 5.5 mm female	3.20	2.30	1.80	Black	6'	1.1	UL, CSA	2.95	2.49	2.25	1.95
121216	AC1810F1★	18 VAC	1000 mA	2.1 mm x 5.5 mm female	3.11	2.36	1.85	Black	6'	1.1	UL, CUL	8.95	7.95	7.25	6.49
158123	AC1810M3	18 VAC	1000 mA	3.5 mm male	3.05	2.26	1.89	Black	6'	1.0	UL, CSA	8.95	7.95	7.25	6.49
87581	AC2405F1★	24 VAC	500 mA	2.1 mm x 5.5 mm female	2.50	2.24	1.92	Black	6'	0.9	UL, CSA	6.95	6.25	5.59	4.95
140599	AC2410F1	24 VAC	1000 mA	2.1 mm x 5.5 mm female	3.00	2.20	1.90	Black	6'	1.2	UL, CSA	8.95	7.95	7.25	6.25
10102	AC2410M3★	24 VAC	1000 mA	3.5 mm male	3.00	2.20	1.90	Black	6'	1.2	UL, CSA	8.95	7.95	7.25	6.25
176356	WP573024	24 VAC	1250 mA	2.1 mm x 5.5 mm female	3.36	2.67	2.20	Black	5'8"	1.6	UL, CSA	9.95	8.95	7.95	6.95

DC Wall Transformers


112070


164101

Polarity 1 (+)—(•)—(−) (center negative)

We specialize in Wall Transformers – call for additional OEM PRICING.

AC to DC Wall Transformers (Input: 120VAC 60Hz)

All are unregulated unless specified

• Plugs into standard 2-prong 115V outlet

Can change any power plug (page 85) on any DC wall transformer listed (100 pcs. min.)


155601


167142

Polarity 2 (−)—(•)—(+) (center positive)

Part Number	Product Number	Output Rating Voltage	Output Rating Current	Output Plug / Polarity ID x OD (mm) Plug Type	Dimensions (in.) H	W	D	Case Color	DC Cord Length (ft.)	Wt. (lbs.)	UL Listed CSA/CUL Approved	Pricing 1	10	50	100
112070	DC502F5★	5 VDC	225 mA	2.5 mm x 5.5 mm female **2**	1.90	2.20	1.95	Black	7'	0.3	UL, CSA	$4.95	$4.49	$3.95	$3.49
164101	R3W005-50	5 VDC	500 mA	2.1 mm x 5.5 mm female **2** (regulated)	2.76	2.02	1.59	Black	6'	0.6	UL, CSA	6.95	6.25	5.59	4.95
155601	DC510F1	5 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	2.58	1.96	1.71	Black	7' 4"	0.7	UL, CSA	5.95	5.35	4.79	4.29
167142	DCR510F12BG	5 VDC	1000 mA	2.1 mm x 5.5 mm female **2** (regulated)	1.05	1.77	2.15	Beige	6'	0.2	UL, CSA	7.95	6.95	6.25	5.59
171301	JOD48U08	5 VDC	1000 mA	2.1 mm x 5.5 mm female **2** (regulated)	3.13	2.93	2.00	Black	6'	1.0	UL, CUL	6.95	6.25	5.59	4.95
155598	DC510F5	5 VDC	1000 mA	2.5 mm x 5.5 mm female **2**	2.58	1.95	1.71	Black	7' 4"	0.7	UL, CSA	5.95	5.35	4.79	4.29
168604	DCR510F5	5 VDC	1000 mA	2.5 mm x 5.5 mm female **2** (regulated)	3.30	2.20	1.92	Black	6'	1.2	UL, CSA	7.95	6.95	6.25	5.59
172427	SA051A5U-1	5 VDC	1500 mA	2.5 mm x 5.5 mm female **2** (regulated)	2.93	1.96	1.61	Black	6'	0.3	UL, CSA	8.95	7.95	6.95	4.95


100845



100853

We specialize in Wall Transformers – call for additional OEM PRICING.

AC to DC Wall Transformers (Input: 120VAC 60Hz)

All are unregulated unless specified

• Plugs into standard 2-prong 115V outlet

Can change any power plug (pg 85) on any DC wall transformer listed (100 pcs. min.)

* Recommended Power Cord P/N 38050 (pg 80)

† 230VAC @ 50HZ European plug


100175


127976

Polarity 1 ⊕—•—⊖ (center negative)

Polarity 2 ⊖—•—⊕ (center positive)

Part Number	Product Number	Output Rating		Output Plug / Polarity	Dimensions (in.)			Case	DC Cord	Wt.	UL Listed	Pricing			
		Voltage	Current	ID x OD (mm) Plug Type	H	W	D	Color	Length (ft.)	(lbs.)	CSA/CUL Approved	1	10	50	100
161541	WA15050R	5 VDC	2500 mA	2.1 mm x 5.5 mm female **2** (regulated)	2.92	1.95	1.62	Black	6'	0.4	UL, CSA	$12.95	$11.95	$10.95	$9.95
155619	DCR530F5	5 VDC	3000 mA	2.5 mm x 5.5 mm female **2** (regulated)	2.95	2.55	1.56	Black	6'	0.5	UL	19.95	17.95	16.95	15.95
136717	RPS480305G	5.2 VDC	500 mA	Cut, strip and tin (w/ connector)	3.31	2.21	1.98	Black	6'	0.9	UL, CSA	1.95	1.75	1.49	1.25
155643	DC603F1	6 VDC	300 mA	2.1 mm x 5.5 mm female **2**	2.80	2.00	1.60	Black	6'	0.2	UL	4.95	4.49	3.95	3.55
119255	DC605F11	6 VDC	500 mA	2.1 mm x 5.5 mm female **1**	2.31	1.75	1.75	Black	6'	0.6	UL, CUL	4.95	4.49	3.95	3.55
101266	DC605F12★	6 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.44	1.89	1.61	Black	6'	0.4	UL, CSA	4.95	4.49	3.95	3.25
15544	DC605M3★	6 VDC	500 mA	3.5 mm male **2**	2.44	1.89	1.61	Black	6'	0.4	UL, CSA	4.95	4.49	3.95	3.25
147707	DC608F1	6 VDC	800 mA	2.1 mm x 5.5 mm female **2**	2.33	1.98	1.62	Black	6'	0.6	UL, CSA	5.49	4.95	4.49	3.95
127511	RPS480808D	8 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	3.10	2.50	2.10	Black	6'	1.3	UL	5.49	4.95	3.95	3.25
134025	DC902F11★	9 VDC	200 mA	2.1 mm x 5.5 mm female **1**	2.13	1.71	1.55	Black	6'	0.4	UL, CSA	4.25	3.75	3.35	2.75
100845	DC902F12★	9 VDC	200 mA	2.1 mm x 5.5 mm female **2**	2.06	1.70	1.47	Black	6'	0.4	UL, CSA	4.25	3.75	3.35	2.95
170958	HKA0920EC	9 VDC	200 mA	2.1 mm x 5.5 mm fem **2 (230VAC input)**†	2.57	1.70	1.56	Black	6'	0.5	TUV, CE	2.95	2.75	2.49	1.95
128830	DC902F5	9 VDC	200 mA	2.5 mm x 5.5 mm female **2**	2.06	1.70	1.47	Black	6'	0.4	UL, CSA	4.25	3.75	3.35	2.95
103528	SA35-39A	9 VDC	200 mA	2.5 mm male **2**	2.13	1.71	1.55	Black	6'	0.4	UL, CSA	3.95	3.49	2.95	2.49
100837	DIA3590	9 VDC	200 mA	3.5 mm male **2**	2.57	1.75	1.55	Black	6'	0.4	UL, CSA	4.25	3.75	3.35	2.49
133891	CH93001	9 VDC	300 mA	2.1 mm x 5.5 mm female **2**	2.00	1.50	1.50	Black	6'	0.4	UL, CSA	4.25	3.75	3.35	2.95
169519	KX-TCA1	9 VDC	350 mA	2.1 mm x 5.5 mm right angle female **1**	2.72	1.70	1.55	Gray	6'	0.4	UL, CSA	3.49	2.95	2.75	2.25
137331	D7500-4	9 VDC	400 mA	2.1 mm x 5.5 mm right angle female **2**	2.40	1.92	1.66	White	6'	0.6	UL	3.95	3.49	2.95	2.49
140636	DC904F5	9 VDC	400 mA	2.5 mm x 5.5 mm female **2**	2.58	2.00	2.00	Black	6'	0.6	UL, CSA	4.49	3.95	3.49	2.95
163627	DC905F11	9 VDC	500 mA	2.1 mm x 5.5 mm female **1**	2.50	1.90	1.74	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
170270	PQLV1	9 VDC	500 mA	2.1 mm x 5.5 mm right angle female **1**	2.68	2.05	1.68	Gray	6'	0.6	UL, CSA	3.95	3.79	3.49	2.75
100853	13-0000083★	9 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.50	1.90	1.74	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
147731	DC905F1	9 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.56	1.95	1.74	Beige	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
180540	FZ1729A	9 VDC	500 mA	2.5 mm x 5.5 mm right angle female **2**	2.41	1.17	1.57	Black	6'	0.4	UL, CSA	4.49	3.95	3.55	3.25
15561	DC905M3★	9 VDC	500 mA	3.5 mm male **2**	2.50	1.95	1.56	Black	6'	0.5	UL, CSA	4.95	4.49	3.95	3.49
100175	DC906F5★	9 VDC	600 mA	2.5 mm x 5.5 mm female **2**	2.50	1.90	1.75	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.55
164929	48-9-900D	9 VDC	900 mA	2.1 mm x 5.5 mm female **1**	2.72	2.30	1.83	Black	6'	0.9	UL, CUL	4.95	4.49	3.95	3.49
100888	48-09-1000D★	9 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	1.0	UL, CSA	6.95	6.25	5.59	4.49
127503	DC910F5	9 VDC	1000 mA	2.5 mm x 5.5 mm female **2**	2.59	2.43	2.00	Black	6'	0.9	UL, CSA	6.95	6.25	5.59	4.95
15587	PAG1200★	9 VDC	1000 mA	3.5 mm male **2**	2.59	2.43	2.00	Black	6'	0.9	UL, CSA	6.95	6.25	5.59	4.95
130526	500273	9 VDC	1200 mA	2.1 mm x 5.5 mm female **1**	2.40	2.00	1.80	Black	6'	1.0	UL, CSA	5.95	5.35	4.79	4.29
143693	DC915F1	9 VDC	1500 mA	2.1 mm x 5.5 mm female **2**	3.25	2.50	2.25	Black	6' 4"	1.3	UL, CSA	10.95	9.95	8.95	7.95
161550	WA15090R	9 VDC	1670 mA	2.1 mm x 5.5 mm female **2** (regulated)	2.92	1.95	1.62	Black	6'	0.4	UL, CUL	13.95	12.49	11.25	9.95
100116	KXA10	12 VDC	100 mA	2.1 mm x 5.5 mm right angle female **1**	2.57	1.81	1.54	Gray	6'	0.4	UL, CSA	2.95	2.65	2.49	1.95
163993	DC1202F11R★	12 VDC	200 mA	2.1 mm x 5.5 mm right angle female **1**	2.38	1.70	1.63	Black	6'	0.4	UL, CSA	3.95	3.49	2.95	2.65
100124	KXA09	12 VDC	200 mA	2.1 mm x 5.5 mm right angle female **1**	2.38	2.15	1.63	Gray	6'	0.6	UL, CSA	3.95	3.49	2.95	2.25
100095	DC1202F1★	12 VDC	200 mA	2.1 mm x 5.5 mm female **2**	2.14	1.82	1.49	Black	6'	0.4	UL, CSA	3.95	3.49	2.95	2.65
158043	43-1008	12 VDC	200 mA	2.1 mm x 5.5 mm right angle female **2**	2.19	1.65	1.50	Black	6'	0.4	—	2.95	2.75	2.49	1.95
149340	351202002	12 VDC	200 mA	2.5 mm x 5.5 mm female **2**	2.52	1.73	1.50	Black	6'	0.4	UL, CSA	3.49	2.95	2.49	1.95
129322	DV1220DC	12 VDC	200 mA	2.5 mm x 5.5 mm right angle female **2**	2.20	1.70	1.50	Gray	6'	0.4	UL, CSA	2.95	2.69	2.49	1.95
164283	HD1225	12 VDC	250 mA	Strip & tin w/ panel mount strain relief	2.18	1.69	1.49	Gray	6'	0.4	UL, CUL	1.95	1.75	1.49	1.25
163491	AD1230	12 VDC	300 mA	Just cut, strip & tin	2.19	2.16	1.59	Black	6'	0.5	UL, CSA	3.49	2.95	2.75	2.25
163512	AD1230CN	12 VDC	300 mA	2.1 mm x 5.5 mm female **1**	2.19	2.13	1.59	Beige	6'	0.6	UL, CSA	2.95	2.49	2.25	1.95
127976	AD1203F12	12 VDC	300 mA	2.1 mm x 5.5 mm female **2**	2.60	1.80	1.60	Black	6'	0.7	UL, CSA	4.49	3.95	3.55	2.95


100870


15392

AC to DC Wall Transformers (Input: 120VAC 60Hz)

All are unregulated unless specified

• Plugs into standard 2-prong 115V outlet

Can change any power plug (page 85) on any DC wall transformer listed (100 pcs. min.)


123932


102285

Polarity 1 ⊕—●—⊖ (center negative) Δ = 3-prong input

Polarity 2 ⊖—●—⊕ (center positive)

Part Number	Product Number	Output Rating Voltage	Output Rating Current	Output Plug / Polarity ID x OD (mm) Plug Type	Dimensions (in.) H	W	D	Case Color	DC Cord Length (ft.)	Wt. (lbs.)	UL Listed CSA/CUL Approved	Pricing 1	10	50	100
163504	AD120CP	12 VDC	300 mA	2.1 mm x 5.5 mm female **2**	2.19	2.13	1.59	Beige	6'	0.6	UL, CSA	$2.95	$2.49	$2.25	$1.95
169130	LSA1974ADT	12 VDC	300 mA	2.5 mm x 5.5 mm female **1**	2.60	1.95	1.76	Beige	6'	0.5	UL, CSA	2.95	2.49	2.25	1.95
147926	AD212	12 VDC	400 mA	2.1 mm x 5.5 mm female **2**	2.59	1.96	1.67	Black	6'	0.5	UL, CSA	3.49	2.95	2.75	2.25
114825	DC1205ST	12 VDC	500 mA	Cut, stripped and tinned	2.52	2.02	1.65	Black	6'	0.6	CUL	3.95	3.75	3.49	3.25
15368	DC1205F11★	12 VDC	500 mA	2.1 mm x 5.5 mm female **1**	2.50	1.90	1.57	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
170296	KXA11	12 VDC	500 mA	2.1 mm x 5.5 mm right angle female **1**	2.58	1.99	1.65	Dark Gray	6'	0.6	UL, CSA	4.75	4.25	3.75	2.95
102496	DC1205F12★	12 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.50	1.90	1.57	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
131300	SCP41	12 VDC	500 mA	2.1 mm x 5.5 mm right angle female **2**	2.60	1.90	1.74	Beige	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
162996	DCR1205F12	12 VDC	500 mA	2.1 mm x 5.5 mm female **2** (regulated)	3.17	2.20	1.91	Black	6'	0.9	—	8.95	7.95	6.95	5.95
102277	DC1205F5★	12 VDC	500 mA	2.5 mm x 5.5 mm female **2**	2.50	2.08	1.68	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.49
17267	DC1205M3★	12 VDC	500 mA	3.5 mm male **2**	2.50	1.90	1.57	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.55
117479	DC1208F1★	12 VDC	800 mA	2.1 mm x 5.5 mm female **2**	2.99	2.28	1.95	Black	6'	0.9	UL, CSA	6.95	6.25	5.59	4.95
129331	48-12-800	12 VDC	800 mA	2.5 mm x 5.5 mm female **2**	2.99	2.28	1.95	Black	6'	0.9	UL, CSA	6.95	6.25	5.59	4.95
121232	AW10D1GA	12 VDC	800 mA	3.5 mm male **2**	2.57	2.40	1.95	Black	7' 4"	0.9	UL, CSA	6.95	6.25	5.59	4.95
100870	DC1210F1★	12 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	0.9	UL, CSA	7.95	6.95	6.25	5.59
170245	HER4812010	12 VDC	1000 mA	2.1 mm x 5.5 mm female **2** (regulated)	3.39	2.27	1.97	Black	6'	1.2	—	10.95	9.95	8.95	7.95
105478	DC1210F5★	12 VDC	1000 mA	2.5 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	1.0	UL, CSA	7.95	6.95	6.25	5.59
15392	DC1210M3★	12 VDC	1000 mA	3.5 mm male **2**	2.58	2.39	1.97	Black	6'	1.0	UL, CSA	7.95	6.95	6.25	5.59
161533	WA15-120R	12 VDC	1250 mA	2.1 mm x 5.5 mm female **2** (regulated)	2.92	1.95	1.62	Black	6'	0.4	UL, CSA	13.95	12.49	11.25	9.95
168858	SA4838A	12 VDC	1300 mA	2.5 mm x 5.5 mm female **2**	3.20	2.25	1.85	Black	6'	1.2	UL, CUL	8.95	7.95	6.95	6.25
136881	DC1215F1	12 VDC	1500 mA	2.1 mm x 5.5 mm female **2**	3.40	2.70	2.20	Black	6'	1.5	—	10.95	9.95	8.95	7.95
101291	DC1215F5★	12 VDC	1500 mA	2.5 mm x 5.5 mm female **2**	3.40	2.70	2.20	Black	6'	1.5	—	10.95	9.95	8.95	7.95
173198	TAACA0011	12 VDC	2500 mA	2.1 mm x 5.5 mm female **2** (regulated)	3.20	2.20	1.30	Gray	6'	0.5	UL, CSA, CE	14.95	13.49	11.95	9.95
129314	DV-1250★	14 VDC	360 mA	2.5 mm x 5.5 mm right angle female **2**	2.34	1.98	1.60	Black	6'	0.6	UL, CSA	4.95	4.49	3.95	3.55
123932	DC1407F1★	14 VDC	700 mA	2.1 mm x 5.5 mm female **2**	2.58	2.39	1.97	Black	6'	1.0	UL, CSA	6.95	6.25	5.59	4.95
170253	AEC4814B	14 VDC	730 mA	2.1 mm x 5.5 mm female **2** Δ	2.79	1.80	1.49	Black	6'	1.1	UL, CSA	4.95	4.49	3.95	3.49
153630	MKD48141000	14 VDC	1000 mA	2.1 mm x 5.5 mm female **2**	2.90	2.28	1.86	Black	6'	1.0	UL, CUL	5.95	5.35	4.79	4.29
153779	D6-10-06	15 VDC	300 mA	2.5 mm x 5.5 mm female **2**	2.44	1.90	1.60	Black	9'	0.7	UL, CSA	4.95	4.49	3.95	3.49
155803	A41506	15 VDC	600 mA	2.1 mm x 5.5 mm female **1**	2.78	2.33	1.81	Black	6'	1.0	UL, CSA	4.95	4.49	3.95	3.49
181702	48D15800	15 VDC	800 mA	Stripped and tinned	3.23	2.25	1.98	Black	6'	1.0	UL, CSA	8.95	7.95	6.95	5.95
163782	481509003C0	15 VDC	900 mA	2.1 mm x 5.5 mm female **2**	2.50	2.21	1.92	Black	6'	0.8	UL, CSA	7.95	6.95	6.25	5.59
151992	AD-SS-2	15 VDC	1000 mA	2.1 mm x 5.5 mm female **1**	3.72	2.56	2.17	Beige	6'	1.5	UL, CSA	8.95	7.95	6.95	5.49
169391	WA15-150	15 VDC	1000 mA	2.1 mm x 5.5mm female **2** (regulated)	2.90	1.90	1.60	Black	6'	0.5	UL, CUL	13.95	12.49	11.25	9.95
162317	DC1605F1	16 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.23	2.35	1.90	Black	6'	0.8	UL, CSA	6.95	6.25	5.59	4.95
181729	CXV18250	18 VDC	250 mA	2.1 mm x 5.5 mm female **2**	2.61	2.04	1.60	Black	6'	0.6	UL	4.95	4.49	3.95	3.49
163272	DC1805F1	18 VDC	500 mA	2.1 mm x 5.5 mm female **2**	2.52	2.23	1.94	Black	6'	0.8	UL, CSA	6.95	6.25	5.59	4.95
168487	KWM020188	18 VDC	1000 mA	2.1 mm x 5.5 mm female **2** (regulated)	2.91	1.94	1.62	Black	6'	0.4	UL, CUL	14.95	13.49	11.95	10.95
102285	DC2404F1★	24 VDC	400 mA	2.1 mm x 5.5 mm female **2**	3.00	2.30	2.00	Black	6'	0.9	UL, CUL	6.95	6.25	5.59	4.95
163635	DC2405F11	24 VDC	500 mA	2.1 mm x 5.5 mm female **1**	3.12	2.34	1.90	Black	6'	1.0	UL, CUL	7.95	6.95	6.25	5.59
174861	DCR2405F12	24 VDC	500 mA	2.1 mm x 5.5 mm female **2** (regulated)	3.35	2.68	2.16	Black	6'	1.3	—	10.95	9.95	8.95	7.95
174879	DCR2405F52	24 VDC	500 mA	2.5 mm x 5.5 mm female **2** (regulated)	3.35	2.68	2.16	Black	6'	1.3	—	10.95	9.95	8.95	7.95
139088	DC2405M3	24 VDC	500 mA	3.5 mm male **2**	3.12	2.34	1.90	Black	6'	1.0	UL, CUL	7.95	6.95	6.25	5.59
167118	BC2424HP	24 VDC	750 mA	2.1 mm x 5.5 mm female **2**	3.34	2.67	2.20	Beige	6'	1.0	UL, CSA	7.95	6.95	6.25	5.59
168495	DC2408F1	24 VDC	800 mA	2.1 mm x 5.5 mm female **2**	2.91	1.94	1.62	Black	6'	0.4	UL, CUL, TUV	9.95	8.95	7.95	6.95
163651	DC2412F11	24 VDC	1200 mA	2.1 mm x 5.5 mm female **1**	3.84	3.01	2.56	Black	6'	2.0	—	13.95	12.49	11.25	9.95
117321	DC2412F5★	24 VDC	1200 mA	2.5 mm x 5.5 mm female **2**	3.84	3.01	2.56	Black	6'	2.0	—	13.95	12.49	11.25	9.95
121241	DC2412M3	24 VDC	1200 mA	3.5 mm male **2**	3.37	2.70	2.22	Black	6'	2.0	—	13.95	12.49	11.25	9.95
160258	13A3546	30 VDC	500 mA	2.5 mm x 5.5 mm female **2**	3.62	2.45	2.04	Black	6'	1.5	UL, CSA	6.95	6.25	5.59	4.95
15309	DCM05★	3, 4.5, 6, 7.5, 9, 12VDC	500 mA	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **female** 2.5, 3.5 **male**, 9V battery snap	2.98	2.15	2.10	Black	6'	0.7	UL, CSA	7.95	6.95	6.25	5.49
123158	DCM10	1.5, 3, 4.5, 6, 7.5, 9, 12VDC	1000 mA	1.35 x 3.5, 2.1 x 5.0, 2.5 x 5.5 **female** 2.5, 3.5 **male**, 9V battery snap	3.71	2.22	2.50	Black	6'	0.9	120 or 220VAC	8.95	7.95	6.95	5.95
181711	48d12800B	12 VDC	800 mA	2.1 mm x 5.5 mm female **2** (240 VAC; UK type plug)	3.18	2.17	2.18	Black	6'	1.1	CE, TUV	6.95	6.25	5.59	4.95

3-60 Watt Table-Top Power Supplies

- Regulated and nonregulated outputs
- Input voltage: 100-240VAC @ 50/60Hz
- P/N 173593: with on/off switch
- P/N 176348/176604: 120VAC input; 5A @ 250V fuse

* Requires power cord P/N 38050 or 38041 (below)

† 120VAC input

120VAC input; 5A @ 250V fuse

Polarity 1 (center negative) Polarity 2 (center positive)



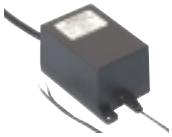
*38050 (black)
38641 (beige)
6' power cord



161568



155205



136565



155213



155230



139096



155221

Part Number	Product Number	Voltage (VDC)	Current	Wattage (W)	Output Plug/Polarity ID x OD Plug Type	Reg.	Power Indicator	Color	Size L" x W" x H"	DC/AC Cord	Wt. (lbs.)	Agency Approvals	Pricing 1	10	50
176348	LTCA054#	14VAC	4.0A	56W	2.1mm x 5.5mm female 1	No	No	Black	4.1 x 3.1 x 2.4	5'8"/ 5'8"	2.7	UL,CUL	$9.95	$8.95	$7.95
176604	TA661640#	16VAC	4.0A	64W	2.1mm x 5.5mm female 1	No	No	Black	3.7 x 2.9 x 2.5	6'/ 6'	2.8	CSA	9.95	8.95	7.95
152135	100380-001†	24VAC	1.46A	35W	2.1mm x 5.5mm female 1	No	No	Black	3.6 x 2.7 x 2.1	3'5"/ 5'6"	1.9	UL,CSA	8.95	7.95	6.95
172435	PUAA053B*	5VDC	2.0A	10W	2.1mm x 5.5mm rt angle fem 2	Yes	Yes	Black	4.5 x 2.0 x 1.7	6'	0.5	UL,CUL,TUV, CE	12.95	11.49	9.95
161568	MA15-050R	5VDC	2.5A	15W	2.1mm x 5.5mm female 2	Yes	No	Black	3.3 x 2.0 x 1.3	4.0'	0.4	UL,CSA,TUV	19.95	17.95	15.95
172443	PSA30U050*	5VDC	4.0A	20W	2.1mm x 5.5mm rt angle fem 2	Yes	No	Black	4.4 x 2.4 x 1.4	3' 4"	0.5	UL,CSA,TUV,CE	19.95	17.95	15.95
172777	AD740U*	5VDC	4.0A	20W	2.1mm x 5.5mm female 2	Yes	Yes	Black	4.1 x 2.6 x 1.6	4.0'	1.4	UL,CUL,TUV,CE	14.95	13.49	11.95
155205	KA52A	5VDC	4.0A	20W	2.1mm x 5.5mm female 2	Yes	No	Black	4.1 x 2.6 x 1.6	6.0'	1.2	UL,CSA,TUV	29.95	26.95	23.95
169121	AD740U1050*	5VDC	4.0A	20W	2.5mm x 5.5mm female 2	Yes	Yes	Black	4.1 x 2.6 x 1.6	4.0'	1.4	UL,CUL,TUV	19.95	17.95	15.95
170341	UP02511091*	9VDC	0.3A	3W	2.1mm x 5.5mm female 2	Yes	No	Black	4.3 x 2.7 x 1.5	6.0'	0.6	UL,CSA,TUV	8.95	7.95	6.95
173577	UPS20109P*	9VDC	2.3A	21W	2.5mm x 5.5mm female 2	Yes	Yes	Beige	5.7 x 2.9 x 1.7	4' 2"	0.9	UL, CSA,TUV	19.95	17.95	15.95
136565	DDC1210P†	12VDC	1.0A	12W	Stripped & Tinned	No	No	Black	3.2 x 2.2 x 1.9	6'/6'	1.2	—	9.95	8.95	7.95
161576	MA15-120R	12VDC	1.25A	15W	2.1mm x 5.5mm female 2	Yes	No	Black	3.3 x 2.0 x 1.3	4.0'	0.4	UL,CSA,TUV	22.95	19.95	17.95
140880	DC1215ST†	12VDC	1.5A	18W	Stripped & Tinned	No	No	Black	3.1 x 2.1 x 1.9	6'/6'	1.5	—	9.95	8.95	7.95
157956	PS571812D†	12VDC	1.5A	18W	2.5mm x 5.5mm female 2	No	No	Black	3.4 x 2.7 x 2.2	6'/6'	2.0	UL	12.95	11.49	9.95
143714	DC1220F1†	12VDC	2.0A	24W	2.1mm x 5.5mm female 2	No	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	—	14.95	13.49	11.95
143722	DC1220F5†	12VDC	2.0A	24W	2.5mm x 5.5mm female 2	No	No	Black	3.8 x 2.8 x 2.3	6'/6'	2.2	—	14.95	13.49	11.95
143731	DC1220M3†	12VDC	2.0A	24W	3.5mm male 2	No	No	Black	3.8 x 2.8 x 2.3	6'/6'	1.9	—	14.95	13.49	11.95
172671	PS07*	12VDC	2.9A	35W	2.1mm x 5.5mm female 2	Yes	Yes	Black	4.3 x 2.4 x 1.4	6'	0.6	UL,CSA,TUV	24.95	22.49	19.95
155213	A42A112MP	12VDC	3.3A	40W	2.1mm x 5.5mm female 2	Yes	Yes	Black	5.5 x 2.3 x 1.5	1.6'	0.7	UL,CUL,TUV	29.95	26.95	23.95
155230	SPU50-3	12VDC	5.0A	60W	2.1mm x 5.5mm female 2	Yes	Yes	Black	5.6 x 2.9 x 1.5	6.0'	1.3	UL,CSA,TUV	44.95	39.95	34.95
173585	UPS20115P*	15VDC	1.4A	21W	2.5mm x 5.5mm female 1	Yes	Yes	Beige	5.8 x 2.9 x 1.7	4' 2"	0.9	UL,CSA,TUV	14.95	13.49	11.95
173593	UPS30215P*	15VDC	1.5A	30W	2.5mm x 5.5mm female 2	Yes	No	Black	6.8 x 4.3 x 2.2	6.0'	1.2	UL,CSA,TUV	19.95	17.95	15.95
174975	SPU24-4	15VDC	1.6A	22W	2.1mm x 5.5mm female 2	Yes	Yes	Black	4.1 x 2.5 x 1.2	6.0'	0.6	UL,CSA,TUV,CE	29.95	26.95	23.95
174983	SPU41-5	18VDC	2.2A	40W	2.1mm x 5.5mm female 2	Yes	Yes	Black	5.6 x 2.9 x 1.6	6.0'	1.1	UL,CUL,TUV,CE	39.95	35.95	32.95
169076	808050-001*	20VDC	2.5A	50W	2.5mm x 5.5mm female 2	Yes	Yes	Black	6.7 x 3.3 x 2.3	6.0'	1.4	UL,CSA,TUV	19.95	17.95	14.95
174844	DCR2410F12†	24VDC	1.0A	24W	2.1mm x 5.5mm female 2	Yes	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.6	—	19.95	17.95	15.95
174852	DCR2410F52†	24VDC	1.0A	24W	2.5mm x 5.5mm female 2	Yes	No	Black	4.4 x 3.0 x 2.5	6'/6'	2.7	—	19.95	17.95	15.95
139096	DC2412F1†	24VDC	1.2A	29W	2.1mm x 5.5mm female 2	No	No	Black	4.4 x 3.1 x 2.6	6'/6'	2.5	—	19.95	17.95	14.95
181884	P40A6P2J	24VDC	1.66A	39.8W	2.1mm x 5.5mm female 2	Yes	Yes	Black	4.1 x 2.6 x 1.4	6.0'	0.7	UL,TUV,CE	29.95	26.95	23.95
155221	A42A124MP	24VDC	1.8A	43W	2.1mm x 5.5mm female 2	Yes	Yes	Black	5.4 x 2.2 x 1.5	1.5'	0.7	UL,CSA,TUV	29.95	26.95	23.95
161605	SPU50-6	24VDC	2.5A	60W	2.1mm x 5.5mm female 2	Yes	Yes	Black	5.6 x 2.9 x 1.6	6.0'	1.3	UL,CSA,TUV	49.95	44.95	39.95
173665	DND-3005	30VDC	0.5A	15W	2.5mm x 5.5mm female 2	Yes	No	Black	8.3 x 2.5 x 2.2	5'9"/3'2"	1.4	UL,CUL	14.95	13.49	11.95
172064	SPU50-9	48VDC	1.25A	50W	2.1mm x 5.5mm female 2	Yes	Yes	Black	5.6 x 2.9 x 1.7	6.0'	1.3	UL,CSA,TUV	49.95	44.95	39.95

Jameco Table Top Power Cords (see page 81 for International Power Cords)

Part Number	Product Number	Description	Color	AWG	Cord Type	Cord Length	Weight (lbs.)	Agency Approvals	Pricing 1	10	100
38041	17249	3-conductor detachable power supply cord	Beige	18/3	SVT	6'	0.4	UL,CSA	$2.95	$2.49	$1.95
38050	17250	3-conductor detachable power supply cord	Black	18/3	SVT	6'	0.4	UL,CSA	3.49	2.95	2.49

Mean Well is an ISO-9002 Certified Company See pages 95-96 for more Mean Well Power Supplies

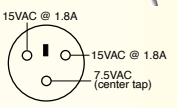
AC/AC and AC/DC Wall Mount Power Supplies

Group West 30 Watt Wall AC Power Supply

Center Tap



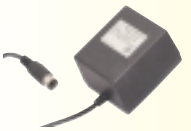
- Input voltage: 120VAC @ 60Hz
- **Output voltage: 15VAC @ 1.8A**
- Input connector: standard 2-prong AC wall connector
- Output connector: 6' cable with 3-pin mini DIN male connector
- Size: 3.2"L x 2.4"W x 2.0"H



- UL/CSA listed
- Weight: 1.8 lbs.

Part No.	Product No.	1	10	50	100
155900	57A-15-1800CT	$3.95	$3.55	$3.19	$2.79

40 Watt AC/AC Wall Transformer



- Input voltage: 120VAC @ 60Hz
- **Output voltage: 16VAC @ 2.5A (center tap)**
- Input connector: standard 3-prong input
- Output connector: 6' cable with 5-pin DIN male connector
- Size: 3.3"H x 2.7"W x 2.2"D
- Weight: 1.8lbs.

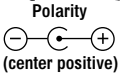


Part No.	Product No.	1	10	50	100
149551	15784903BF	$6.95	$6.25	$5.59	$4.95

On-Tech 5.4 Watt Linear Wall Transformer (Australia)



- Input voltage: 240VAC @ 50Hz
- **Output voltage: 9VDC @ 600mA**
- Input connector: Australian type 2-prong connector
- Output connector: **2.5mm x 5.5mm female** center positive with 6' cord
- Size: 2.88"H x 2.16"W x 1.53"D
- Weight: 0.8 lbs. • Color: Black



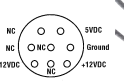
Part No.	Product No.	1	10	50
172654	B9-410313	$4.95	$4.49	$3.95

Motorola 5.6 Watt Linear Wall DC Power Supply

Regulated Wall Transformer



- Input voltage: 120VAC @ 60Hz
- **Output voltage: +5VDC @ 500mA, +12VDC @ 130mA, -12VDC @ 130mA**



- Input connector: standard 3 prong AC wall connector
- Output connector: 6' cord with 8-pin mini DIN connector
- UL/CSA listed
- Size: 2.9"L x 2.6"W x 1.9"H
- Weight: 1.2 lbs.

Part No.	Product No.	1	10	50	100
154624	5712-305-4C3E	$6.95	$6.25	$5.49	$4.95

TCE 10.2 Watt Regulated DC Wall Power Supply



- Input voltage: 120VAC @ 60Hz
- **Output voltage: +12VDC @ 850mA**
- Input connector: standard 3-prong AC wall connector
- Output connector: 3-pin 0.156" center housing (P/N 104432, pg 56); 6' cable • Mating output connector: (3-pin male 0.156" center lock headers)

- Size: 4.7"L x 3.1"W x 2.2"H • Weight: 1.7 lbs.

Part No.	Product No.	1	10	50
163387	TL1102	$8.95	$7.95	$6.95

Potrans 12 Watt DC Wall Power Supply

Dual Output



- Input voltage: 120VAC @ 60Hz
- **Output volt.: +9VDC @ 1A; -9VDC @ 0.3A**
- Output connector: 3-pin male mini DIN plug with 10' cable



- Input connector: 2-prong input plug
- Mating output connector: recommended P/N 155061 (pg 59) • Size: 3.2"L x 2.2"W x 1.9"D • Wt: 1.2 lbs.

Part No.	Product No.	1	10	50
171088	WP481218D	$5.95	$5.35	$4.79

AC/AC and AC/DC Table-Top Power Supplies

Jameco 13.5 Watt Table Top AC Power Transformer

Center Tap



- Input voltage: 120VAC @ 60Hz
- **Output voltage: 18VACT@750mA**
- Input connector: 2-prong plug with 6' cable
- Output connector: 4-pin mini DIN connector with 5'6" cable

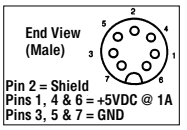
- Size: 3.4"L x 2.6"W x 2.1"H
- Weight: 2.2 lbs. • UL approved

Part No.	Product No.	1	10	50	100
174220	PS571418CG	$8.95	$7.95	$6.95	$6.25

Atari 5 Watt Linear Table-Top DC Power Supply



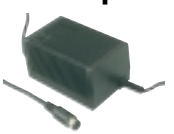
- Input voltage: 115VAC @ 60Hz
- **Output voltage: +5VDC @ 1.0A**
- Input connector: 6' 2-wire cord with 115VAC plug
- Output connector: 6' wire with 7-pin DIN



- No minimum load required
- Size: 3.4"L x 2.7"W x 2.3"H
- UL approved • Weight: 1.6 lbs.

Part No.	Product No.	1	10	50
116089	CO70042	$6.95	$6.25	$5.59

Atari 6.1 Watt Linear Table-Top DC Power Supply



- Input voltage: 117VAC @ 60Hz
- **Output voltage: +5VDC @ 720mA, +12VDC @ 210mA**
- Input connector: standard 2-prong AC wall connector, 6' long • UL/CSA listed
- Output connector: 5' cord with 5-pin DIN female connector



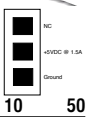
- Size: 4.8"L x 3.3"W x 3.2"H • Wt.: 2.6 lbs.

Part No.	Product No.	1	10	50
147467	PS32	$4.95	$4.49	$3.95

LEXMARK 7.5 Watt Linear Table-Top DC Power Supply



- Input voltage: 115~120VAC 60Hz @ 275mA
- **Output voltage: +5VDC @ 1.5A**
- Input conn.: 6'2" 2-prong plug
- Output connector: 8' cord with 3-pin molex type connector



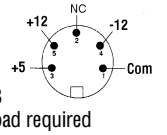
- Min. load: 10% of rated load
- Size: 5.5"L x 2.5"W x 2.2"H • Weight: 2.1 lbs.

Part No.	Product No.	1	10	50
160899	7202C3	$5.95	$5.35	$4.79

Jameco 9 Watt Linear Table-Top DC Power Supply



- Input volt.:120VAC @ 50/60Hz
- **Output voltage: +5VDC @ 0.6A, +12VDC @ 0.25A, -12VDC @ 0.25A**
- Input connector: grounded 120VAC plug, 70" cord



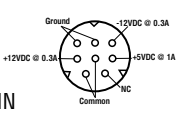
- Mating output connector: P/N 15843 or 29399 (pg 59) • No minimum load required
- Size: 4.8"L x 3.1"W x 2.5"H • Wt: 2.3 lbs.

Part No.	Product No.	1	10	50
103173	JE9100	$22.95	$20.95	$18.95

Globtek 12.2 Watt Linear Table-Top DC Power Supply



- Input voltage: 120VAC @ 60Hz
- **Output voltage: +5VDC @ 1.0A, +12VDC @ 0.3A, -12VDC @ 0.3A**
- Input connector: grounded 120VAC plug with 6' cord



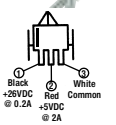
- Output connector: 8-pin mini DIN w/ 6' cord • Size: 4.5"L x 3.0"W x 2.5"H • Wt.: 2.6 lbs.

Part No.	Product No.	1	10	50
155651	TR2V100MD8	$14.95	$13.49	$11.95

Keltron 15.2 Watt Linear Table-Top DC Power Supply



- Input voltage: 115VAC @ 60Hz
- **Output voltage: +5VDC @ 2.0A, +26VDC @ 0.2A**
- Protected by 0.5A fuse
- Input connector: 3 pronged 6' power cord
- Output connector: female molex 3 conductor, 3.5' cord • UL approved



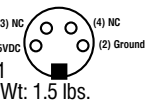
- Min. load: all outputs at 10% of rated load
- Size: 7.0"L x 4.9"W x 2.5"H • Weight: 3.1 lbs.

Part No.	Product No.	1	10	50
107326	MPC2S62	$4.95	$4.49	$3.95

Gatron 3.75 Watt Regulated DC Table-Top Power Supply



- Input voltage: 120VAC @ 60Hz
- **Output voltage: +5VDC @ 750mA**
- Input connector: standard 3-prong with 5'9" cord
- Output connector: 4-pin male mini DIN with 5'9" cord



- Recommend 4-pin female mini DIN PC mount connector (P/N 140791 pg 59) • Size: 4.1"L x 2.5"W x 2.0"H • Wt: 1.5 lbs.

Part No.	Product No.	1	10	50
163969	AH633N	$6.95	$6.25	$5.49
140791	MDR4S (connector)	.49	.39	.39

Skynet 8 Watt Table-Top DC Power Supply



- Input volt.: 115/230 @ 50/60Hz
- **Output voltage: +5VDC @ 1.5A, -5VDC @ 0.1A**
- Input connector: 3 prong input power plug
- Output connector: 6' cord with 5-pin DIN male connector



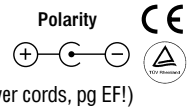
- Mating input connector: P/N 38050 (pg 80)
- Mating output connector: P/N 15843 (pg59)
- Size: 5.5"L x 2.9"W x 1.5"H • Weight: 1.1 lbs.

Part No.	Product No.	1	10	50	100
153752	LVT-T022	$9.95	8.95	$7.95	$6.95

Condor International 12 Watt Table-Top DC Power Supply



- Input voltage: 230VAC @ 50Hz
- **Output voltage: +12VDC @ 1A**
- Input connector: 3-prong female connector with 6.5" cable
- Mating input connector: recommend P/N 38050 (3-conductor detachable power cord, pg 80 or International power cords, pg EF!)



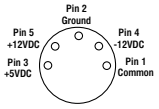
- Output connector: 2.1mm x 5.5mm center positive female connector • CE/TUV approved
- Size: 3.2"L x 2.2"W x 1.9"H • Weight: 1.1lbs.

Part No.	Product No.	1	10	50
175450	PSDG121A-230	$8.95	$7.95	$6.95

Mean Well 17 Watt Table-Top DC Power Supply



- Input voltage: 100/250VAC @ 50-60Hz
- **Output voltage: +5VDC @ 1.0A, +12VDC @ 0.5A, -12VDC @ 0.5A**

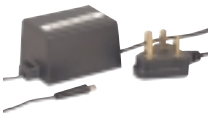


- Output connector: male 5-pin DIN connector with 5' long cable
- Mating output connector: P/N 15843 (pg 59) • CSA/CE/TUV approved
- Size: 4.0"L x 2.5"W x 1.5"H • Weight: 1.0 lb.

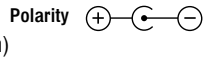
Part No.	Product No.	1	10	25
159353	KA60A	$34.95	$31.49	$28.95

Hewlett Packard 12 Watt Table-Top DC Power Supply

India & South Africa Version



- Input volt.: 220VAC @ 50Hz
- **Output volt.: +30VDC @ 0.4A**
- Input connector: 3-prong power plug with 3' cable (BS546 type power plug India & South Africa version)



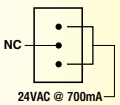
- Output connector: 2.5mm x 6.5mm female center negative with 6' cord
- Size: 3.5"L x 2.7"W x 2.1"H • Weight: 1.7 lbs.

Part No.	Product No.	1	10	50	100
172216	C2180A	$6.95	$6.25	$5.59	$4.95

AULT 16.8 Watt AC Table-Top Transformer



- Input voltage: 127VAC @ 60Hz
- **Output voltage: 24VAC @ 700mA**
- Input connector: standard 2-prong AC wall (plug) connector, 6' long
- Output connector: 3-pin .156" center housing (P/N 104432 – pg 56), 6' cord • UL listed



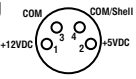
- Size: 3.1"L x 2.1"W x 1.9"H • Weight: 1.1 lbs.

Part No.	Product No.	1	10	50
147310	0931RB	$4.95	$4.49	$3.95

AULT 21.1 Watt Table-Top Regulated DC Power Supply



- Input voltage: 100/250VAC @ 50/60Hz
- **Output voltage: +5VDC @ 1.1A; +12VDC @ 1.3A**



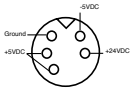
- Input conn.: 3-prong input power plug
- Mating input connector: P/N 38050
- Output connector: 6' cable with 4-pin mini DIN male connector
- Mating output connector: P/N 140791
- Size: 4.1"L x 2.5"W x 1.5"H • Weight.: 0.9 lbs.

Part No.	Product No.	1	10	50	100
171627	SC222TA	$14.95	$13.49	$11.95	$9.95

Potrans 23 Watt Table-Top Regulated DC Power Supply



- Input voltage: 100/250VAC @ 50/60Hz
- **Output voltage: +5VDC @ 2A; +24VDC @ 0.5A; -5VDC @ 0.2A**
- Input connector: 3-prong input power plug
- Mating input connector: 3-conductor detachable power cord (recommended P/N 38041 – pg 80) • UL/CSA/TUV approved



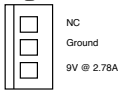
- Minimum load: 1 amp on 5VDC output
- Output conn.: 5-pin mini DIN male with 3'8" cord
- Size: 4.2"L x 2.6"W x 1.5"H • Weight: 1.0 lb.

Part No.	Product No.	1	10	50
171070	UPO2513060	$14.95	$13.49	$11.95

AULT 25 Watt Regulated DC Table-Top Power Supply



- Input voltage: 100/250VAC@50/60Hz
- **Output voltage: +9VDC @ 2.78A**
- Input connector: 3-prong input connector
- Mating input connector: recommend P/N 38050 (pg 80)



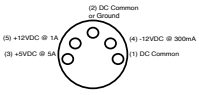
- Output connector: 5'8" cord w/ 3-pin Molex type connector
- CE/CSA/UL/TUV approved
- Color: black
- Size: 5.0"L x 3.0"W x 1.5"H • Weight: 1.3 lbs.

Part No.	Product No.	1	10	50
173825	SW109	$14.95	$13.49	$11.95

Mean Well 40.6 Watt Table-Top Reg. DC Power Supply



- Input voltage: 100/240VAC @ 47-63Hz
- **Output voltage: +5VDC @ 5A; +12VDC @ 1A; -12VDC @ 0.3A**



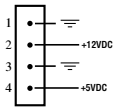
- Output connector: 4' cable with 5-pin mini DIN male connector
- Includes 6' AC cord
- Mating output connector: 5-pin DIN female connector P/N 15843 (pg 59) • UL/CE/TUV approved
- Size: 5.5"L x 3.0"W x 1.6"H • Weight: 1.3 lbs.

Part No.	Product No.	1	10	25
155053	SPU41-13D-1	$44.95	$39.95	$34.95

TDK 19.4 Watt Switching DC Power Supply



- Input voltage: 100/15VAC @ 50/60Hz
- **Output voltage: +5VDC @ 1.0A, +12VDC @ 1.2A**



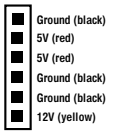
- Input connector: 3-pin .156" center housing connector
- Output connector: 4-pin male locking header • UL approved
- Minimum load: all outputs at 10% of rated load
- Size: 4.8"L x 3.0"W x 1.3"H • Weight: 0.4 lbs.

Part No.	Product No.	1	10	50
146991	A530	$7.95	$6.95	$5.95

Operating Technical 19.4 Watt Switching DC Power Supply



- Input voltage: 90-264VAC @ 47/63Hz
- **Output voltage: +5VDC @ 1A; +12VDC @ 1.2A**
- Input connector: 3-prong power plug
- Internal fuse, 1.6A @ 250VAC

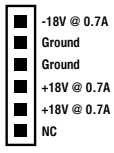


- Mating input connector: P/N 38050 (pg 80)
- Output connector: 2-position and 4-position female 3.5" disk drive power connectors
- Matching output connector: P/N 114999 (pg 57) and P/N 108337 (pg 55) • UL/CSA/TUV approved
- Size: 6.7"L x 1.6"W x 1.1"H • Weight: 0.4 lbs.

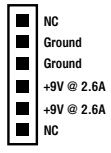
Part No.	Product No.	1	10	50	100
167062	OTE2006	$7.95	$6.95	$6.25	$5.95

Potrans Switching DC Power Supplies

- Input voltage: 90/250VAC @ 50/60Hz
- Mating input connector: P/N 104432 (.156" housing connector, pg 56)
- Mating output connector: P/N 104731 (.156" housing connector, pg 56)
- Fused (2A @ 250VAC)
- Minimum load: all outputs at 10% of rated load
- UL/CSA/TUV approved



170149



170114



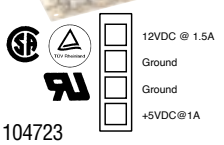
170114

Part No.	Product No	Output Voltage	Watts	Size (L"xW"xH")	Wt. (lbs.)	1	10	50
170149	U00251200	±18VDC @ 0.7A	12.6	3.7 x 2.5 x 1.0	0.4	$8.95	$7.95	$6.95
170114	U002511090	+9VDC @ 2.6A	23.4	3.7 x 2.5 x 1.0	0.4	9.95	8.95	7.95

Autec 23 Watt Switching DC Power Supply



- Input voltage: 115/230VAC @ 50/60Hz
- **Output voltage: +5VDC @ 1A; +12VDC @ 1.5A**
- Internal fuse: 2A @ 250V
- Input connector: 5-position 0.156" male headers
- Mating input connector: P/N 104723 (5-position 0.156" female housing pg 56)
- Output connector: 4-position 0.156" male header
- Mating output connector: P/N 104715 (0.156" female housing pg 56) • UL/CSA/TUV approved
- Size: 5.0"L x 3.0"W x 1.1"H • Weight: 0.5 lbs.

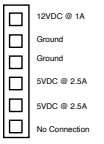


Part No.	Product No.	1	10	50	100
173374	UPS202002	$8.95	$7.95	$6.95	$5.95

Super Mac 24.5 Watt Switching DC Power Supply

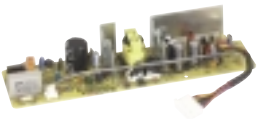


- Input voltage: 100-240VAC @ 50/60Hz
- **Output voltage: +5V @ 2.5A; +12V @ 1A**
- 2A @ 250V fuse on board
- Mating input connector: P/N 104432 (3-position housing connector - pg 56)
- Mating output connector: P/N 104731 (6-position housing connector - pg 56)
- Minimum load: all outputs 10% of rated load • UL/CSA/TUV approved
- Size: 3.8"L x 2.5"W • Weight: 0.4 lbs.

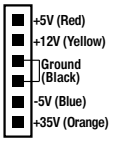


Part No.	Product No.	1	10	50	100
166967	U002512010	$9.95	$8.95	$7.95	$6.95

Converter Concepts 30 Watt Switching DC Power Supply



- Input voltage: 85/135VAC @ 57/63Hz
- **Output voltage: +5VDC @ 2.7A; +12VDC @ 1.2A; +35VDC @ 35mA; -5VDC @ 180mA**
- Input connector: 3-pin 0.156" center male header
- Output connector: 6-pin 0.156" locking header
- 2.5A @ 250V on board fuse • UL approved
- Minimum load: all outputs at 10% of rated load
- Size: 9.6"L x 2.0"W x 1.6"H • Weight: 0.6 lbs.

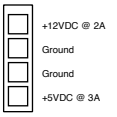


Part No.	Product No.	1	10	50	100
168225	STRC0006	$4.95	$4.49	$3.95	$3.49

AUTEC 39 Watt Switching DC Power Supply



- Input voltage: 115VAC-230VAC @ 50/60Hz
- **Output voltage: +5VDC @ 3A; +12VDC @ 2A;**
- Input connector: 5-pos. 0.156" male headers • 2A @ 250V internal fuse
- Mating input connector: P/N 104723 (5-position 0.156" female housing pg 56)
- Output connector: 4-pin 0.156" male headers
- Mating output connector : P/N 100802 (0.100" female housing); P/N 100765 (female crimp pin)
- UL/CSA/TUV approved
- Size: 5.0"L x 3.0"W x 1.0"H • Weight: 0.5 lbs.

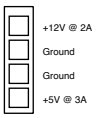


Part No.	Product No.	1	10	50
173340	UPS 40-2002	$17.95	$15.95	$13.95

AUTEC 40 Watt Switching DC Power Supply



- Input voltage: 115VAC/230VAC @ 50/60Hz
- **Output voltage: +5VDC @ 3A; +12VDC @ 2A;**
- Input connector: 5-position 0.156" male headers • 2A @ 250V fuse
- Mating inout connector: P/N 104723 (0.156" housing connector pg 56)
- Mating output connector : P/N 104715 (0.156" housing connector pg 56)
- Output connector: 4-position 0.156" male headers
- Mating output connector: P/N 104715 (0.156" housing connector pg 56) • UL/CSA/TUV approved
- Minimum load: all outputs at 10% of rated load
- Size: 7.0"L x 2.0"W x 1.2"H • Weight: 0.5 lbs.

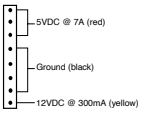


Part No.	Product No.	1	10	50
173551	UPS 40-1002	$12.95	$11.49	$9.95

Skynet 40 Watt Switching DC Power Supply



- Input voltage: 100/240VAC @ 50/60Hz
- **Output voltage: +5VDC @ 7A, +12VDC @ 300mA**
- Input connector: standard 3-prong plug
- 3.15A @ 250V fuse on board
- Mating input connector: recommend P/N 38050 (pg 80)
- Output connector: 8-position 0.156" female housing
- On-off power switch on board • UL/CSA/TUV approved
- Size: 6.5"L x 3.0"W x 1.3"H • Weight: 0.6 lbs.

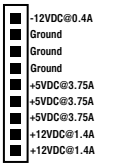


Part No.	Product No.	1	10	50
172697	IXM9543	$8.95	$7.95	$6.95

ASTEC 41 Watt Switching DC Power Supply



- Input voltage: 115VAC @ 50/60Hz
- **Output voltage: +5VDC @ 3.75A, +12VDC @ 1.5A, -12VDC @ 0.4A**
- Mating output connector: P/N 104432/104715 (pg 56)
- Minimum load: all outputs at 10% of rated load
- UL/CSA approved
- Size: 6.4"L x 3.2"W x 1.7"H • Wt.: 1.0 lb.

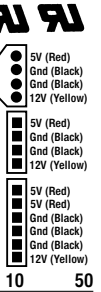


Part No.	Product No.	1	10	50
28927	BM41012	$9.95	$8.95	$7.95

Samsung 43 Watt Switching DC Power Supply



- Input voltage: 100V/120VAC @ 50/60Hz
- **Output voltage: +5VDC @ 5.0A, +12VDC @ 1.5A**
- Mating input connector: 3-prong male AC plug connector
- Mating output connector: (1) P/N 42067; (1) P/N 114930; (1) P/N 78326 (pg 58)
- Minimum load: all outputs at 10% of rated load • UL/CUL approved
- Size: 6.1"L x 2.1"W x 1.0"H • Wt:. 0.6 lbs.

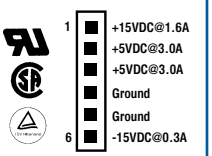


Part No.	Product No.	1	10	50
163985	PSPL430201A	$7.95	$6.95	$5.95

Potrans 43 Watt Switching DC Power Supply



- Input voltage: 90/250VAC @ 50/60Hz
- **Output voltage: +5VDC @ 3.0A, +15VDC @ 1.6A, -15VDC @ 0.3A**
- Mating input connector: P/N 104432 (pg 56)
- Mating output connector: P/N 104731 (pg 56)
- Minimum load: all outputs at 10% of rated load
- UL/CSA/TUV approved
- Size: 5.0"L x 3.0"W x 1.5"H • Weight: 0.6 lbs.

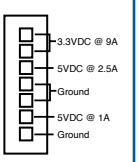


Part No.	Product No.	1	10	50
163125	U030431	$12.95	$11.49	$9.95

CHEROKEE 47 Watt Switching DC Power Supply

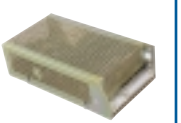


- Input voltage: 100/240VAC @ 47/63Hz
- **Output voltage: +3.3VDC @ 9.0A; +5VDC @ 2.5A +5VDC @ 1A**
- Input connector: 3-pos. 0.156" male header
- Mating input connector: P/N 104432 (pg 56)
- Output connector: 7-position 0.156" male header
- 2A @ 250V fused • UL/CSA approved
- Minimum load: all outputs at 10% of rated load
- Size: 5.0"L x 3.0"W x 1.3"H • Weight: 0.7 lbs.

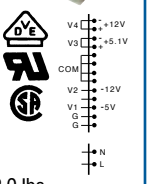


Part No.	Product No.	1	10	50
174641	CCH74C3	$9.95	$8.95	$7.95

ASTEC 50 Watt Switching DC Power Supply



- Input voltage: 115/230VAC @ 50/60Hz
- **Output voltage: +5VDC @ 6.0A,+12VDC @ 2.5A, -5VDC @ 0.5A,-12VDC @ 0.5A**
- Mating input connector: P/N 104432 (pg 56)
- Mating output connector: P/N 104432/104766 (pg 56)
- Minimum load: all outputs at 10% of rated load • UL/CSA/VDE approved
- Size: 8.0"L x 4.5"W x 2.5"H • Weight: 2.0 lbs.

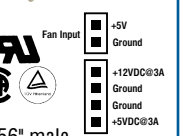


Part No.	Product No.	1	10	50
146843	AC9232-01	$19.95	$17.95	$15.95

AUTEC 51 Watt Switching DC Power Supply



- Input voltage: 115/230VAC @ 50/60Hz • Input auto ranging
- **Output voltage: +5VDC @ 3A, +12VDC @ 3A**
- Input connector: 5 position 3-pin 0.156" male locking headers
- Mating input connector: P/N 104723 (0.156" center housing connector – pg 56)
- Output connector: 4 position 0.156" male locking headers • UL/CSA/TUV approved
- Mating output connector: P/N 104715 (0.156" center housing connector – pg 56)
- Minimum load: all outputs at 10% of rated load
- Size: 5.0"L x 3.0"W x 1.9"H • Weight: 0.7 lbs.

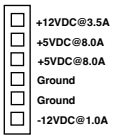


Part No.	Product No.	1	10	50
169050	UPS50-2002	$9.95	$8.95	$7.95

ASTEC 60 Watt Switching DC Power Supply



- Input voltage: 100VAC/240VAC @ 50/60Hz
- **Output voltage: +5VDC @ 8A, +12VDC @ 3.5A, -12VDC @ 1A**
- Input connector: 3-position 0.156" locking male headers
- Mating input connector: recommend P/N 104432 (pg 56)
- Output connector: 6-position 0.156" locking male headers • 3.15A@250V fuse
- Mating output connector: recommend P/N 104731 (pg 56) • UL/CSA/TUV/VDE/CE approved
- 80 watt maximum with 30CFM forced air
- Minimum load: all outputs at 10% of rated load
- Size: 5.0"L x 3.0"W x 1.6"H • Weight: 0.8 lbs.

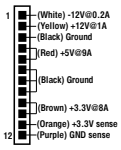


Part No.	Product No.	1	10	50
180970	LPT62	$19.95	$17.95	$15.95

Delta 60 Watt Switching DC Power Supply



- Input voltage: 90/270VAC @ 47/63Hz
- Input fuse: 4A/250V
- **Output voltage: +3.3VDC @ 8.0A, +5VDC @ 9.0A, +12VDC @ 1.0A, -12VDC @ 0.2A**
- Mating input connector: recommend P/N 38050 (3-conductor detachable power cord pg 80) • Max rating 60W
- Input connector: 3-prong AC male plug connector
- Output connector: 12-position 0.156" male headers
- Mating output connector: 12-position Molex type (F) power connector (included) • UL/CUL/TUV approved
- Minimum load: all outputs at 10% of rated load
- Size: 5.8"L x 3.3"W x 1.4"H • Weight: 1.0 lb.

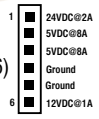


Part No.	Product No.	1	10	50
171731	DPS-60MPB	$8.95	$7.95	$6.95

ASTEC 60 Watt Switching DC Power Supply



- Input voltage: 100/250VAC @ 50/60Hz
- **Output voltage: +5VDC @ 8A, +12VDC @ 1A, +24VDC @ 2A**
- Input connector: 3-position 0.156" male headers
- Mating input connector: P/N 104432 (pg 56)
- Output connector: 6-position 0.156" male headers
- Mating output connector: P/N 104731 (pg 56)
- 60 watt max. convection cooling; 80 watts with 30 CFM forced air (recommend P/N 102904, pg 77)
- Minimum load: all outputs at 10% of rated load
- 3.15A @ 250V fuse • UL/CSA/VDE listed
- Size: 5.0"L x 3.0"W x 1.6"H • Weight: 0.8 lbs.

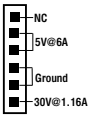


Part No.	Product No.	1	10	50
171281	LPT65	$19.95	$17.95	$15.95

Total Power 65 Watt Switching DC Power Supply



- Input voltage: 90/264VAC @ 47/63Hz
- Input fused: 2A @ 250V
- **Output voltage: +5VDC @ 6.0A, +30VDC @ 1.16A**
- Output 65W max.
- Input connector: 3-pos. 0.156" male headers
- Mating input connector: P/N 104432 (pg 56)
- Output connector: 6-position 0.156" male headers • UL/CSA/TUV approved
- Mating output connector: P/N 104731 (pg 56)
- Minimum load: all outputs at 10% of rated load
- Size: 5.0"L x 3.0"W x 1.3"H • Weight: 0.6 lbs.

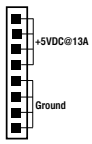


Part No.	Product No.	1	10	50
171740	TPG65-32B	$8.95	$7.95	$6.95

AUTEC 65 Watt Switching DC Power Supply



- Input voltage: 115/230VAC @ 50/60Hz
- Input auto ranging
- **Output voltage: +5VDC @13A**
- Input connector: 5 position 3-pin 0.156" center locking male headers
- Mating input connector: P/N 104723 (housing connectors – pg 56)
- Output connector: 8 position 0.156" center locking male headers
- Mating output connector: P/N 104723 & P/N 104432 (housing connectors – pg 56) • UL/CSA/VDE approved
- Minimum loads: all outputs at 10% of rated load
- Size: 6.0"L x 3.5"W x 1.5"H • Weight: 0.8 lbs.

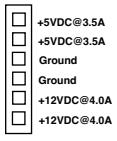


Part No.	Product No.	1	10	50
169068	UPS65-1051	$8.95	$7.95	$6.95

AUTEC 65 Watt Switching DC Power Supply



- Input voltage: 115VAC/230VAC @ 50/60Hz
- **Output voltage: +5VDC @ 3.5A, +12VDC @ 4.0A**
- Input connector: 5-position 0.156" locking male headers
- Mating input connector: recommend P/N 104723 (pg 56) • 2A@250 fuse
- Output connector: 6-position 0.156" l ocking male headers
- Mating output connector: recommend P/N 104731 (pg 56) • UL/CSA/TUV approved
- Minimum load: all outputs at 10% of rated load
- Size: 5.5"L x 3.0"W x 1.4"H • Weight: 1.6 lbs.

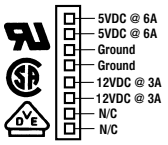


Part No.	Product No.	Price
151757	UPS65-1002S	$9.95

Skynet 66 Watt Switching DC Power Supply



- Input voltage: 115/230VAC @ 50/60Hz
- **Output voltage: +5VDC @ 6.0A, +12VDC @ 3.0A**
- 2A/250V slow blow fuse on board
- Mating input connector: P/N 104432 (pg 56)
- Mating output connector: P/N 104723 & 104432 (pg 56)
- UL/CSA/VDE approved
- Size: 6.0"L x 3.5"W x 1.8"H • Weight: 0.8 lbs.

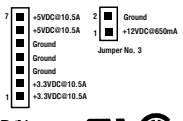


Part No.	Product No.	1	10	50
161841	SNP3163	$12.95	$11.49	$9.95

ARTESYN 70 Watt Switching DC Power Supply



- Input voltage: 100–240VAC @ 50/60Hz
- **Output voltage: 3.3VDC @ 10.5A, 5VDC @ 10.5A, 12VDC @ 650mA**
- UL/CSA/VDE/CE approved
- Input conn.: 3-position 0.156" male headers
- Mating input conn.: recommend P/N 104432 (0.156" female housing, pg 56)
- Output conn.: 7-position and 2-position 0.156" male header
- Mating output conn.: recommend (1) P/N 104432 and (1) 104715 (0.156" female housing, pg 56)
- Minimum load: all outputs at 10% of rated load
- Size: 5.5"L x 3.0"W x 1.3"H • Weight: 0.8 lbs.

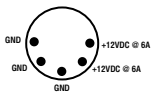


Part No.	Product No.	1	10	50
182916	NLP70-9693	$14.95	$13.49	$11.95

ELPAC 72 Watt Table-Top Switching Power Supply



- Input voltage: 95-250VDC @ 47-63Hz
- **Output voltage: +12VDC @ 6A,**
- Output connector: 6'cable with 5-pn DIN connector
- Mating output connector: 5-pin DIN female connector, P/N 15878 (pg 59)
- CSA/CE approved
- Size: 6.2"L x 3.8"W x 2.6"H • Weight: 2.5 lbs.



Part No.	Product No.	1	10	50
182959	W7212	$19.95	$17.95	$15.95

COMPAQ 73 Watt Switching DC Power Supply



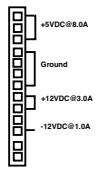
- Input voltage: 100/240VDC @ 50/60Hz
- **Output voltage: +5VDC @ 10A, +12VDC @ 1.5A, -5VDC @ 0.3A, -12VDC @ 0.3A**
- Input auto ranging • Recessed power switch
- Mating input connector: P/N 38050 power cord (pg 80) • UL/CSA/TUV listed
- Mating output connector: P/N 103392 (1) – pg 55; 78300 (2) & 42075 (1) – pg 57
- Minimum load: all outputs at 10% of rated load
- Size: 6.6"L x 3.8"W x 2.9"H • Weight: 2.1 lbs.

Part No.	Product No.	1	10	50
101813	141688-003	$12.95	$11.49	$9.95

Digital Power 88 Watt Switching DC Power Supply



- Input voltage: 99VAC/250VAC @ 47-63Hz
- **Output voltage: +5VDC @ 8A, +12VDC @ 3A, -12VDC @ 1A**
- Input connector: 5-position 0.156" male locking headers
- Mating input connector: recommend P/N 104723 (pg 56)
- Output connector: 14-poistion 0.156" male locking headers
- Minimum load: all outputs at 10% of rated load • UL/CUL/TUV approved
- Size: 5.0"L x 3.4"W x 1.5"H • Weight: 0.9 lbs.



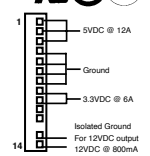
Part No.	Product No.	1	10
181180	USC100-311	$19.95	$17.95

Digital Power 90 Watt Switching DC Power Supply

Requires 30CFM air cooling



- Input voltage: 90-250VAC @ 47-63Hz
- **Output voltage: +3.3VDC @ 6A, +5VDC @ 12A, +12VDC @ 0.8A**
- Input connectors: 0.156" Molex type male headers (14-pin)
- Output connectors: 0.156" Molex type male headers (5-pin)
- Recommend fan: P/N 102904 (pg 77) – 115VAC, 31 CFM
- Auto switching input • UL/CSA/TUV approved
- Minimum load: all outputs at 10% of rated load
- Size: 6.0"L x 3.2"W x 1.0"H • Weight: 1.0 lb.



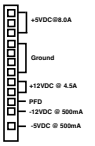
Part No.	Product No.	1	10	50
157913	US100-313	$12.95	$11.49	$9.95

ARTESYN 103 Watt Switching DC Power Supply



Quad Output

- Input voltage: 100VAC/240VAC @ 50/60Hz
- **Output voltage: +5.1VDC @ 8A, +12VDC @ 4.5A, -5VDC @ 500mA, -12VDC @ 500mA**
- Input connector: 5-position 0.156" male locking headers
- Mating input connector: recommend P/N 104803 (pg 56)
- Output connector: 13-position 0.156" male locking headers
- Minimum load: all outputs at 10% of rated load
- UL/CSA/CE/VDE approved • 5A @ 250V fuse
- Size: 7.0"L x 4.2"W x 1.8"H • Weight: 1.3 lbs.

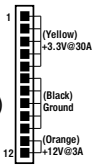


Part No.	Product No.	1	10
181198	NFS110-7601P	$19.95	$17.95

Power One 135 Watt Switching DC Power Supply



- Input voltage: 85/250VAC @ 50/60Hz
- On-board 5A @ 250VAC fuse
- **Output voltage: +3.3VDC @ 30A, +12VDC @ 3A**
- Output: 135 watts max.
- Input connector: 5-pos. 0.156" male header
- Mating input connector: P/N 104723 (pg 56)
- Output connector: 12-position Molex type 0.156" housing connector



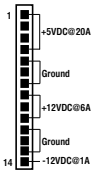
- Mating output connector: 12-position 0.156" male header • On-board 5A @ 250VAC fuse
- Minimum load: all outputs at 10% of rated load
- Size: 8.1"L x 4.2"W x 1.5"H • Weight: 1.9 lbs.

Part No.	Product No.	1	10
171686	MPU1503300S240	$12.95	$11.49

Cherokee 150 Watt Switching DC Power Supply



- Input voltage: 115/230VAC @ 50/60Hz
- **Output voltage: +5VDC @ 20A, +12VDC @ 6A, -12VDC @ 1A**
- Mating input connector: P/N 104723 (pg 56)
- Mating output connector: P/N 104766 and 104715 (pg 56)
- Minimum load: all outputs at 10% of rated load • UL/CSA/TUV approved
- Size: 8.3"L x 4.7"W x 2.9"H • Weight: 3.0 lbs.

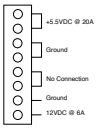


Part No.	Product No.	1	10
163299	QT2A1V	$19.95	$17.95

Digital Power 150 Watt Switching DC Power Supply



- Input voltage: 90/250VAC @ 47/63Hz
- **Output voltage: +5.5VDC @ 20A, +12VDC @ 6A,**
- 5A @ 250V fuse
- Output connector: 8-position screw down terminals
- Input connector: 3-position screw down terminals



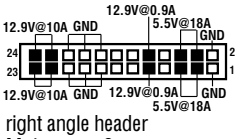
- Mating input/output connector: recommended P/N 103587 or P/N 103595 (pg 59)
- Minimum load: all outputs at 10% of rated load
- Size: 6.8"L x 3.8"W x 1.5"H • Weight: 1.5 lbs.

Part No.	Product No.	Price
171184	USS150201	$29.95

Digital Power 250 Watt Switching DC Power Supply



- Input voltage: 90/250VAC @ 47/63Hz
- 5A @ 250VAC fused
- **Output voltage: +5.5VDC @ 18A, +12.9VDC @ 10A, +12.9VDC @ 0.9A**
- Input connector: Molex type 6-position double row blind mating right angle header



- Mating input connector: Molex type 6 position double row blind mating receptacle
- Output connector: Molex type 24-position double row blind mating right angle header
- Mating output connector: Molex type 24-position double row blind mating receptacle
- Minimum load: all outputs at 10% of rated load
- UL/CUL/TUV/CE approved
- Size: 10.0"L x 4.5"W x 1.9"H • Weight: 1.9 lbs.

Part No.	Product No.	1	10	50
171643	USS256-351	$12.95	$11.49	$9.95

ASTEC Switching DC Power Supply

1800 Watts



- Input voltage: 85/264VAC @ 47/440Hz
- **Output voltage: +5VDC @ 60A, +5.2VDC @ 288A**
- Input voltage auto switching
- 600V @ 25A internal fuse
- 10% adjustable on all outputs
- Over-voltage, overload, reverse-voltage, short circuit and thermal protection
- Max operating temperature: 50˚C (122˚F)
- Industrial type screw down terminals and Molex type power connectors • Internal cooling fan
- Includes installation and application notes manual
- UL/CSA/TUV/VDE/CE approved
- Size: 8.0"L x 7.9"W x 5.0"H

Part No.	Product No.	Watts	Wt. (lbs.)	Price
167513	VS3L2A2	1797	16.2	$249.95

Power One Switching Power Supplies

1175–2000 Watts



167492

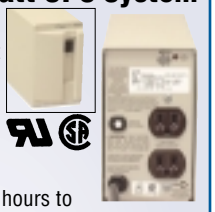
- Input voltage auto switching
- Screw down terminals
- 600V @ 25A internal fuse
- Remote voltage sense
- 10% adjustable on all outputs
- Parallelable outputs w/ current sharing w/ same unit
- Over-voltage, reverse polarity and short circuit protection • Max operating temp.: 50˚C (122˚F)
- Internal cooling fan • UL/CSA/TUV approved
- Size: 11.0"L x 8.0"W x 5.0"H

Part No.	Input voltage	Output voltage
167492	90/264VAC @ 47/440Hz	2VDC @ 250A 2VDC @ 250A 5VDC @ 35A
167530	180/264VAC @ 47/440Hz	5VDC @ 150A 5VDC @ 250A

Part No.	Product No.	Watts	Wt. (lbs.)	Price
167492	SPM5F4F4A1H	1175	23.5	$99.95
167530	HPM5A4A2KH	2000	21.0	249.95

ONEUPS Plus 300 Watt UPS System

With Dual Outlet



- Input voltage: 120VAC @ 60Hz
- Output voltage: 120VAC
- Output current: 2.5 amps (full load)
- Protects against blackouts and brownouts
- Battery charging: less than 6 hours to 90% usable capacity
- Battery backup time: 5–10mins. @ full load; 10–20 mins. with partial load
- Size: 5.8"H x 3.4"W x 13.2"D • Weight: 12.4 lbs.

Part No.	Product No.	1	10
179961	PRB300A	$59.95	$53.95

APC UPS Monitoring Kit



This card will monitor your UPS system in terms of AC failures, UPS shutdown, low battery signal, and I/O address. All functions are switch selectable.

- System software requirements: NOVELL ELS NetWare Level I versions 2.12; NOVEL ELS NetWare Level II versions 2.12 and higher; NOVELL Advanced NetWare versions 2.1 and higher; NOVELL SFT NetWare versions 2.1 and higher; NOVELL NetWare 386 versions 3.0 and higher
- System hardware requirements: file server with AT style bus; APC UPS system equipped with an interface connector • Includes manual and cable
- Size: 4.3"L x 3.9"W • Weight: 0.6 lbs.

Part No.	Description	Price
180769	UPS monitoring kit	$14.95

JANSON 13.8VDC Regulated 41 Watt to 110 Watt Power Supplies

- Input voltage: 115VAC @ 60Hz • Fused • Heavy duty 5'8" 3-prong power cord • Illuminated rocker switch
- Output terminals: banana post/cigarette plug (see pages 74 & 137 for plugs)

Part No.	Model No.	Fig.	Power (W)	Current	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
164179	RPS1203C	1	41.4	3A	3.3 x 5.1 x 7.5	5.8	$14.95	$13.49	$10.95
164161	RPS1203D	2	41.4	3A	3.3 x 5.1 x 7.5	5.8	14.95	13.49	10.95
163918	RPS1204T	3	55.2	4A	3.6 x 5.6 x 8.6	7.9	19.95	17.95	14.95
163926	RPS1205	3	69.0	5A	3.8 x 5.6 x 9.0	8.9	22.95	19.95	16.95
163934	RPS1206	3	82.8	6A	4.8 x 6.2 x 9.9	9.0	24.95	22.49	17.95



Fig. 1 Cigarette plug | Fig. 2 Banana & cigarette | Fig. 3 Banana terminal

See page 137 for mating banana power plugs and page 74 for cigarette power plugs

Mean Well Authorized Distributor

• High efficiency • Low output ripple • 100% burn-in • UL approved • MTBF rated
• Short circuit, overload over voltage protected • Can provide all values and voltages upon request

45 Watt Switching DC Power Supply



- Input voltage: 90VAC/260VAC @ 50/60Hz
- **Output voltage: +5VDC @ 3.0A, +12VDC @ 2.0A,-12VDC @ 0.3A**
- Mating input connector: P/N 104432 (pg 56)
- Mating output connector: P/N 104731 (pg 56) • Input auto ranging
- Minimum load: all outputs at 10% of rated load • Data sheet included
- Size: 5.0"L x 3.0"W x 1.6"H • Weight: 0.6 lbs. • One-year warranty

Part No.	Product No.	1	10	25	100
88401	PT45B	$32.95	$29.95	$26.95	$23.95

60 Watt Switching DC Power Supply



- Input voltage: 100–240VAC @ 2A; 50-60Hz
- **Output voltage: +5VDC @ 5.5A, +12VDC @ 2A, -5VDC @ 0.5A, -12VDC @ 0.5A**
- Line regulation: 0.5%-1.0%
- Ripple and noise: 100-120mV peak to peak • DC voltage adjustment: CH 1: +10, -5%
- Mating input/output connector: P/N 103587 (pg 59) • Size: 6.3"L x 3.9"W x 1.5"H
- Minimum load: all output at 10% rated load • Weight: 1.2 lbs.

Part No.	Product No.	1	10	25	100
147045	Q60	$49.95	$41.95	$39.95	$35.95

120 Watt Quad Output Switching DC Power Supplies



132388

- Input voltage: 90-130VAC or 180-260VAC
- Switch selectable input
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- Minimum load: all outputs at 10% of rated load
- MTBF see chart on (pg 96)
- UL/CE/TUV approved
- Size: 8.0" x 4.4"W x 2.0"H • Weight: 2.0 lbs.

Part No.	Product No.	Watts	Output	1	10
132388	Q-120B	120	5VDC @ 11A; -5VDC @ 1A 12VDC @ 4A; -12VDC @ 1A	$69.95	$62.95
132370	Q-120D	124	5VDC @ 8A; 24VDC @ 2A 12VDC @ 2A; -12VDC @ 1A	69.95	62.95

25 Watt Single & Dual Output Switching DC Power Supplies



148603

- Input voltage: 85-246VAC @ 47-63Hz
- Mating input connector: P/N 104432 (pg 56)
- Mating output connector: P/N 104715 (pg 56)
- No minimum load required • UL/CSA/TUV approved
- Size: 4.2"L x 2.4"W x 1.2"H • Weight: 0.4 lbs.

MTBF Hours vs Operating Temperature at 100% Load

Operating Temp.	PS-25	PS-65	PD-25
50˚C	79,978 hrs.	14,104 hrs.	105,120 hrs.
25˚C	315,360 hrs.	69,642 hrs.	376,680 hrs.

Part No.	Product No.	Watts	Output	1	10	25
148603	PS25-12	25.2	12VDC @ 2.1A	$22.95	$19.95	$17.95
148689	PD25-12 (Dual)	24.0	12VDC @ 1A -12VDC @ 1A	24.95	22.49	19.95

65 Watt Single Output Switching DC Power Supplies



148638

- Input voltage: 85-264VAC @ 47-63Hz
- Mating input connector: P/N 104432 (pg 56)
- Mating output connector: P/N 104731 (pg 56)
- No minimum load required • UL/CSA/TUV approved
- Size: 5.0"L x 3.0"W x 1.6"H • Wt.: 0.6 lbs.

Part No.	Product No.	Watts	Output	1	10	25
148638	PS65-12	62.4	12VDC @ 5.2A	$27.95	$24.95	$22.49
148646	PS65-24	64.8	24VDC @ 2.7A	27.95	24.95	22.49

480 Watt Single Output Switching DC Power Supplies

With PFC Power Factor Correction



147053

- Input voltage: 100-240VAC @ 7A; 50/60Hz
- Built-in remote control • UL/CE/TUV approved
- Mating input/output connector: P/N 103587 (pg 59) spade terminal • Remote voltage sensing
- Protection: short circuit, overload, over voltage, over temperature
- Cooling fan (temperature sensing) • Size: 7.3"L x 4.8"W x 3.8"H
- PFC: 98% @ 115VAC; 95% @ 230VAC • Weight: 4.2 lbs.

Part No.	Product No.	Watts	Output	1	10	25
147053	SP500-24	480	24VDC @ 20A	$229.95	$199.95	$179.95
161795	SP500-48	480	48VDC @ 10A	229.95	199.95	179.95

Switching Power Supplies



LPS 100 Series



LPP 150 Series



SP 150 Series

- 100% full load burn-in test
- PFC: 98% @ 115VAC; 95% @ 230VAC
- Overload, over voltage & short circuit protection
- UL/CUL/CE/TUV approved • Compact size, lightweight
- No minimum load requirement • Operating temp: 0-50˚C

With PFC Power Factor Correction

LPS100 series

- Input voltage: 88-264VAC@47-63Hz
- Mating input connector: P/N 104723
- Mating output connector: P/N 104715 (2)

Part No.	Prod. No.	Watts	Output	Size(L"xW"xH")	Wt. (lbs.)	1	10	25
173471	LPS100-12	100.8	12VDC@8.4A	8.7 x 2.4 x 1.1	0.8	$59.95	$53.95	$48.95
173462	LPS100-24	100.8	24VDC@4.2A	8.7 x 2.4 x 1.1	0.8	59.95	53.95	48.95

LPP150 Series

- Input voltage: 85-264VAC@47-63Hz
- Mating input connector: P/N 104723
- Mating output connector: P/N 104715 (3)

Part No.	Product No.	Watts	Output	Size (L"xW'xH")	Wt. (lbs.)	1	10	25
173454	LPP150-24	151.2	24VDC@6.3A	8.7x2.9x1.6	1.21	$64.95	$58.95	$52.95
173446	LPP150-48	153.6	48VDC@3.2A	8.7x2.9x1.6	1.21	64.95	58.95	52.95

SP150 Series

- Input voltage: 85-264VAC@47-63Hz
- Mating input/output connectors: P/Ns 103587 (pg 59)

Part No.	Product No.	Watts	Output	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
173438	SP150-7.5	150	7.5VDC@20A	7.8x3.9x2.0	1.7	$79.95	$71.95	$64.95
173420	SP150-12	150	12VDC@12.5A	7.8x3.9x2.0	1.7	79.95	71.95	64.95
173411	SP150-15	150	15VDC@10A	7.8x3.9x2.0	1.7	79.95	71.95	64.95
173403	SP150-24	150	24VDC@6.5A	7.8x3.9x2.0	1.7	79.95	71.95	64.95

25 Watt Single Output Switching DC-DC Power Supply DC-to-DC Converters



175812

- Input voltage: 9.2VDC-18VDC
- 2:1 input range
- Low cost, high reliability
- Built-in EMI filter, low ripple noise
- Voltage output adjustable
- Short-circuit, over voltage, and overload protection
- Input/output connector: screw down terminals
- Mating input/output terminals: recommend P/N 103587 or P/N 103595 (spade terminals, pg 59)
- Size: 3.9"L x 3.9"W x 1.5"H

Part No.	Product No.	Out. Voltage	1	10	25
175661	SD25A5	5V@5A	$34.95	$29.95	$26.95
175804	SD25A12	12V@2.1A	34.95	29.95	26.95
175812	SD25A24	24V@1.1A	34.95	29.95	26.95

Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

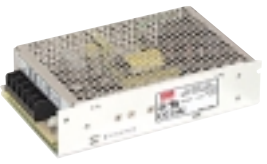
We Can Special Order Any Mean Well Power Supply

Mean Well Authorized Distributor

Mean Well is an ISO-9001 Certified Company

• High efficiency • Low output ripple • 100% burn-in • Short circuit, overload over voltage protected • UL approved • MTBF rated • One-year warranty


123254


123351


123449


137648


123457

25 Watt Single Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- UL/TUV/CE approved • MTBF see table below right
- No minimum load required • Size: 3.9"L x 3.8"W x 1.4"H • Weight: 0.8 lbs.

Part No.	Product No.	Watts	Output	1	10	25
123246	S-25-5★	25.0	5VDC @ 5.0A	$32.95	$29.95	$26.95
123254	S-25-12★	25.2	12VDC @ 2.1A	32.95	29.95	26.95
123262	S-25-15	25.5	15VDC @ 1.7A	32.95	29.95	26.95
123271	S-25-24★	26.4	24VDC @ 1.1A	32.95	29.95	26.95

40 Watt Single Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- UL/TUV/CE approved • MTBF see table below right
- No minimum load required • Size: 5.1"L x 3.9"W x 1.5"H • Weight: 1.0 lb.

Part No.	Product No.	Watts	Output	1	10	25
123289	S-40-5	40	5VDC @ 8.0A	$39.95	$35.95	$32.95
123297	S-40-12	42	12VDC @ 3.5A	39.95	35.95	32.95
123318	S-40-24	43	24VDC @ 1.8A	39.95	35.95	32.95

60 Watt Single Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- UL/TUV/CE approved • MTBF see table below right
- No minimum load required • Size: 6.3"L x 3.8"W x 1.5"H • Weight: 1.2 lbs.

Part No.	Product No.	Watts	Output	1	10	25
123326	S-60-5	60	5VDC @ 12A	$44.95	$39.95	$35.95
123334	S-60-12	60	12VDC @ 5A	44.95	39.95	35.95
123342	S-60-15	60	15VDC @ 4A	44.95	39.95	35.95
123351	S-60-24	60	24VDC @ 2.5A	44.95	39.95	35.95

100 Watt Single Output Switching Power Supply

- Input voltage: 95 to 130VAC or 190 to 260VAC
- Jumper selectable input
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- UL/TUV/CE approved • MTBF see table below right • Weight: 1.4 lbs.
- No minimum load required • Size: 7.8"L x 3.9"W x 1.5"H

5V, 7.5V, 15V, 24V and 48V also available!

Part No.	Product No.	Watts	Output	1	10	25
123385	S-100F-12	102	12VDC @ 8.5A	$49.95	$44.95	$39.95

150 Watt Single Output Switching Power Supplies

- Input voltage: 90 to 130VAC or 180 to 260VAC
- Jumper selectable input
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- UL/TUV/CE approved • MTBF see table right
- No minimum load required • Size: 7.8"L x 4.3"W x 2.0"H • Weight: 1.8 lbs.

9V, 13.5V and 27V also available!

Part No.	Product No.	Watts	Output	1	10	25
123393	S-150-5	150	5VDC @ 30A	$53.95	$49.95	$47.95
123414	S-150-7.5	150	7.5VDC @ 20A	59.95	49.95	47.95
123422	S-150-12	150	12VDC @ 12.5A	59.95	53.95	47.95
123431	S-150-15	150	15VDC @ 10A	59.95	49.95	47.95
123449	S-150-24	156	24VDC @ 6.5A	59.95	53.95	47.95
167345	S-150-48	154	48VDC @ 3.2A	59.95	53.95	47.95

240 Watt Single Output Switching Power Supplies

- Input voltage: 88 to 132VAC or 176 to 264VAC automatic switching
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- Automatic fan controls internal temperature
- MTBF see table below
- UL/CSA/TUV/CE approved • Size: 8.0"L x 3.7"W x 2.6"H

5V, 7.5V, 15V and 30V also available!

Part No.	Product No.	Watts	Output	Weight	1	10
137648	S-240-12	216	12VDC @ 18A	2.5 lbs.	$99.95	$89.95
137656	S-240-24	240	24VDC @ 10A	2.5 lbs.	109.95	99.95
167337	S-240-48	240	48VDC @ 5A	2.5 lbs.	109.95	99.95

300 Watt Single Output Switching Power Supplies

With PFC – Power Factor Correction

- 98% @ 115VAC; 95% @ 230VAC
- Input voltage: 100 to 240VAC (with PFC Power Factor Correction)
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- Over temperature protected • Automatic fan controls internal temperature
- UL/TUV/CE approved • MTBF see table below • Size: 9.0"L x 4.5"W x 2.0"H

Part No.	Product No.	Watts	Output	Weight	1	10
137390	SP-300-12	288	12VDC @ 24A	2.6 lbs.	$139.95	$124.95
137402	SP-300-24	300	24VDC @ 12.5A	2.6 lbs.	139.95	124.95
161980	SP-300-48	300	48VDC @ 6.25A	2.6 lbs.	139.95	124.95

60 Watt Dual Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- UL/TUV/CE approved • MTBF see table below • Weight: 1.2 lbs.
- Minimum load: all outputs at 10% of rated load • Size: 6.3"L x 3.8"W x 1.5"H

Part No.	Product No.	Watts	Output	1	10	25
123457	D-60A	56	5VDC @ 4A, 12VDC @ 3A	$44.95	$39.95	$35.95
123465	D-60B	58	5VDC @ 3A, 24VDC @ 1.8A	44.95	39.95	35.95

120 Watt Dual Output Switching Power Supplies

- Input voltage: 90-130VAC or 180-260VAC • Switch selectable input
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- Minimum load: all outputs at 10% of rated load
- UL/TUV/CE approved • MTBF see table below • Size: 8.0"L x 4.4"W x 2.0"H

Part No.	Product No.	Watts	Output	Weight	1	10
132409	D-120A	120	5VDC @ 12A, 12VDC @ 5A	1.9 lbs.	$49.95	$44.95
132396	D-120B	126	5VDC @ 6A, 24VDC @ 4A	1.9 lbs.	59.95	53.95

60 Watt Triple Output Switching Power Supplies

- Input voltage: 100 to 240VAC
- Full input range (no changes required for 110 or 220VAC operation)
- Mating input/output connector: P/N 103587 (pg 59) spade terminal
- UL/TUV/CE approved • MTBF see table below
- Minimum load: all outputs at 10% of rated load • Size: 6.3"L x 3.8"W x 1.5"H

Part No.	Product No.	Watts	Output	Weight	1	10
123481	T-60B	61	5VDC @ 5A, 12VDC @ 2.5A -12VDC @ 0.5A	1.2 lbs.	$44.95	$39.95
123490	T-60C	63	5VDC @ 5A, 15VDC @ 2.0A -15VDC @ 0.5A	1.2 lbs.	44.95	39.95

MTBF (hours) vs Operating Temperature/Load

Models: S-25, S-40, S-60, S-100F, S-150, D-60, D-120, T-60, Q-120

Operating Temp.	50°C	40°C	30°C
Load 100%	10,000	30,000	90,000
Load 60%	30,000	80,000	200,000

Models: S-240, SP-300

Operating Temp.	50°C	40°C	30°C
Load 100%	45,000	90,000	180,000
Load 60%	62,500	125,000	250,000

30 Watt Single Output Switching DC Power Supply

MRE Series 100/230VAC



- Input voltage: 100/230VAC @ 50/60Hz
- **Output volt.: +12VDC @ 2.5A**
- Mating input/output connector: P/N 103587 (pg 59)
- Adjustable outputs ±10%
- Input/output connector: screw down terminals
- Size: 6.2"L x 3.9"W x 1.5H • Weight: 1.1 lbs.

Part No.	Product No.	1	10	25
167687	MRE122R5U	$12.95	$11.49	$9.95

Dual/Triple Output Power Supply

67 Watt PRK Series 120VAC

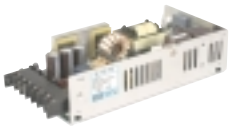


- Input voltage: 120VAC @ 50/60Hz
- **Output voltage: +5VDC @ 5.0A; +12VDC @ 2.5A; -12VDC @ 1.0A**
- Mating input/output connector: P/N 103587 (pg 59)
- Input/output connector: screw down terminals
- Adjustable outputs @ ±10%
- Size: 7.9"L x 4.1"W x 1.7"H • Weight: 1.7 lbs.

Part No.	Product No.	1	10	25
167679	PRK70U01212	$19.95	$17.95	$15.95

Single Output DC Power Supply

150 Watt SXI Series 230VAC



- Input voltage: 230VAC @ 50/60Hz
- **Output voltage: +15VDC @ 10A**
- Adjustable outputs @ ±10%
- Mating input/output connector: P/N 103587 (pg 59)
- Input/output connector: screw down terminals
- Size: 6.8"L x 3.7"W x 1.8"H • Weight: 1.3 lbs.

Part No.	Product No.	1	10
167951	SXI15015S	$24.95	$22.49

Power Supplies Project Book (1997)



Prompt Publications Guides you through the fundamentals of power supplies to design and construction of a power supply system. Includes basics of AC and DC, regulated and unregulated, linear and switching and more. (124 pages)

- Size: 6.0" x 9.0" • Weight: 0.4 lbs.

Part No.	Description	1	10
145453	Power Supplies Project Book	$19.95	$17.95

Triple Voltage Power Supply Kit



- Input voltage: 120VAC @ 50/60Hz
- **Power output: Fixed + 5VDC @ 1 amp, adjustable +3 to +12VDC @ 100mA, adjustable -3 to -12VDC @ 100mA**
- Fuse protected
- PC board construction
- Size: 5.1"L x 5.1"W x 2.3"H
- Weight: 2.1 lbs.

103 pc. Kit

Part No.	Description	1	10	25
73613★	Power supply kit	$26.95	$23.95	$19.95

Switching DC Power Supply

70 Watt ESK Series 115/240VAC



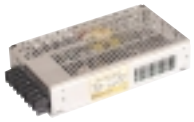
- Dual or triple outputs
- Input voltage: 115/240VAC @ 50/60Hz switch selectable
- Input/output connector: screw down terminals • UL/CSA approved
- Mating input / output connector: P/N 103587 (pg 59)

Part No.	Product No.	Volt (VDC)	Current (A)	Watt (W)	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
167821	ESK80U1212A	+5/+12/-12	10.0/1.5/0.5	74.0	8.6 x 4.9 x 1.5	2.1	19.95	17.95	15.95

30 & 50 Watt ERK Series 120/240VAC



167610



167628

- Dual or triple outputs
- UL/CSA/TUV/CE approved
- Input volt.: 120/240VAC @ 50/60Hz, auto switching
- Input/output connector: screw down terminals
- Mating input / output connector: P/N 103587 (pg 59)

Part No.	Product No.	Volt (VDC)	Current (A)	Watt (W)	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
167601	ERK301212W	+12/+12	1.5/1.2	30 max.	6.3 x 3.8 x 1.5	1.1	$19.95	$17.95	$15.95
167628	ERK500524W	+5/+24	6.0/1.5	50 max.	7.2 x 4.1 x 1.6	1.4	19.95	17.95	15.95
167636	ERK50U1212	+5/+12/-12	6.0/2.5/0.5	50 max.	7.4 x 4.1 x 1.6	1.5	19.95	17.95	15.95

150 Watt SP Series 100/240VAC

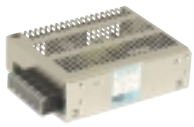


- Single or triple outputs
- Adjustable outputs ±10%
- Input voltage: 100/240VAC @ 50/60Hz
- Mating input / output connector: P/N 103587 (pg 59)
- Input/output connector: screw down terminals

Part No.	Product No.	Volt (VDC)	Current (A)	Watt (W)	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
167741	SP15005S	+5	30.0	150.0	9.4 x 4.9 x 1.8	2.7	$29.95	$26.95	$23.95

Enclosed DC Power Supplies

50 & 150 Watt EXI Series 220VAC



167927



167935

- Single output • Adjustable outputs ±10%
- Input voltage: 220VAC @ 50/60Hz
- Mating input / output connector: P/N 103587 (pg 59)
- Input/output connector: screw down terminals † Cover not included

Part No.	Product No.	Volt (VDC)	Current (A)	Watt (W)	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
167927	EXI481R1	+48	1.1	50.0	4.8 x 3.8 x 1.5	0.9	$19.95	$18.95	$17.95
167935	EXI483R3	+48	3.3	158.4	7.1 x 3.7 x 2.2	1.9	24.95	22.49	19.95

JAMECO® 13.8VDC Precision Regulated Linear Power Supplies



Fig. 1



Fig. 2



Fig. 3

- Output terminal: binding post/plug (P/N 138667 connectors in rear) – see page 137 for plugs
- Input voltage: 115VAC @ 60Hz
- P/N 136581 includes overheating protection
- May require fan cooling if operated continuously at high current
- Short-circuit protection • Fuse protected • Heavy duty 3-pronged 5' power cord

Part No.	Product No.	Fig.	Cont. Curr.	Surge Curr.	Size (L"xW"xH")	Wt. (lbs.)	1	10	25
135845	RPS1204	1	4A	6A	6.7 x 5.2 x 3.2	5.5	$29.95	$26.95	$23.95
136581	RPS1207	2	7A	10A	8.7 x 5.7 x 3.6	8.5	49.95	44.95	39.95
138667	PS10	3	10A	12A	7.0 x 6.6 x 4.3	10.0	64.95	58.95	52.95
138675	PS20	2	20A	22A	10.0 x 7.8 x 4.4	15.9	99.95	89.95	79.95

ECG® Master Replacement Guide and Software (2000)



Philips ECG® The *Guide* features approx. 300,000 crosses and hundreds of new devices. New *Instant Cross* software gives ECG replacement, description, case style, and special notes. (720 pgs)
• Weight (*Guide*): 2.3 lbs.
146801: Requires Windows® 3.1/95/98

Part No.	Description	1	10
146819	Master Replacement Guide	$9.95	$8.95
146801	Instant Cross Software (Win®)	9.95	8.95

Basic Stamp Data Book (2000)



Newnes Publishing — This book covers both the hardware and software sides of the Parallax basic stamp I and II microprocessor operation and design. The basic stamp is built on PC micro-controller hardware and uses PBASIC as its programming language which makes it simple to use and modify even for beginners and versatile enough to solve professional problems. (305 pages)
• 6.0" x 9.2" • Weight: 0.9 lbs.

Part No.	Description	1	10
143651	Basic Stamp Data Book	$34.95	$31.49

Programming and Customizing The Basic Stamp and CD-ROM (1998)



McGraw-Hill A comprehensive tutorial on the easy to use BASIC stamp single board computer and a primer on electronics. (284 pages)
• Includes software tools to begin developing PIC applications
• Size: 7.4" x 9.0" • Weight: 1.2 lbs.

Part No.	Description	1	10
154667	BASIC Stamp Book	$32.95	$29.95

Handbook of Microcontrollers (1999)



McGraw-Hill Covers topics such as architecture, instruction set for the built-in processor, features and peripherals of the microcontroller and common methods of interfacing microcontrollers with peripheral devices. Supports devices such as PIC MI DS1820, DS1307, 8051, 80C310/320/520, 68HC05C8/705J1A/05P9A. Includes CD-ROM with application building tools, source code examples and manufacturer's data sheets. (861 pages)
• Size: 7.5" x 9.0" • Weight: 3.9 lbs.

Part No.	Description	1	10
161832	Microcontroller Handbook	$44.95	$39.95

Programming and Customizing 8051 Microcontroller Book (1999)



McGraw-Hill Provides you with a complete understanding of the 8051 chip compatibles along with all the information needed to design and debug applications. Covers how to use these embedded chips to access and control many different devices. Also includes over 30 experiments and 12 projects, CD-ROM features sorce code and PDF data sheets. (541 pages)
• Size: 7.5" x 9.2" • Weight: 2.5 lbs.

Part No.	Description	1	10
161402	Programming/Customizing	$34.95	$31.49

The Micro-Controller Application Cookbook (2000)



Woodglen Press - This cookbook is a collection of interface circuits. The book creates an easier approach for students, electronic designers, and educators to create products. It is also an instant reference to circuits as well as a variety of simple circuits and interface code that can be customized for more advanced users. (248 pages) • 5.3" x 8.63" • Weight: 0.7 lbs.

Part No.	Description	1	10
181681	Microcontroller Cookbook	$29.95	$26.95

PIC'n Techniques Book (1999)



Square 1 Publishing This book describes the unique features of the 8-pin microcontrollers, the use of timer 1 and 2 and the capture/compare/PWM (CCP) module followed by timing, counting and pulse width modulation. (311 pages)
• Size: 8.5" x 11.0" • Weight: 2.0 lbs.

Part No.	Description	1	10
161242	PIC'n Techniques	$34.95	$31.49

Easy PIC'n (1999)



Square 1 Publishing Learn all about the PIC16C54 & PIC16C84 and apply to the whole line of microcontrollers. This easy-to-use guide teaches assemblers, programming, interrupts, timing/counting and I/O conversion. (160 pages)
• Size: 8.5" x 11.0" • Weight: 1.0 lb.

Part No.	Description	1	10
136645	Easy PIC'n	$29.95	$26.95

PIC'n up the Pace Intermediate Guide (1999)



Square 1 Publishing The next book from where Easy PIC'n left off. It includes topics on Op Amps, shift registers, liquid crystal display interface, digital to analog conversions, analog to digital conversions, decimal interface and so on. (269 pages)
• Size: 8.5" x 11.0" • Weight: 1.7 lbs.

Part No.	Description	1	10
145736	PIC'n up the Pace	$34.95	$31.49

Serial PIC'n (1999)



Square 1 Publishing This book introduces serial communications, including synchronous and asynchronous communications. Provides you with a set of serial communications functions and subprograms as well as how to communicate serially with the PICmicro family of microcontrollers. (530 pages)
• Size: 8.5" x 11.0" • Weight: 3.3 lbs.

Part No.	Description	1	10
163871	Serial PIC'n	$49.95	$44.95

Programming and Customizing PIC Book



McGraw-Hill Details the features of the PICmicro® and how to use these embedded chips to access and control many different devices. Shows what happens within the PICmicro® when an instruction is executed and how it interfaces with external devices. Includes tools for developing applications, sample operating systems, tips to make code development and debug-ging easier and PCB for proramming (1190 pages)
• Includes CD-ROM and PIC PCB
• Size: 9.2" x 7.3" • Weight: 4.0 lbs.

Part No.	Description	1	10
183046	PIC Book (second edition)	$49.95	$44.95

PIC Microcontroller Project Book



McGraw-Hill This book provides you with hands-on directions for putting Microchip's RISC-based chips with up to 8K of memory to work. Starting with simple projects and experiments, this book leads you gradually into sophisticated programming techniques. This book will provide you guidance on: getting the equipment you need, programming your chip, making your chip count numerically, deliver messages on a LCD display, and so on. (203 pages)
• Size: 7.3" x 9.2" • Weight: 1.0 lb.

Part No.	Description	1	10
174650	PIC Microcontroller Book	$29.95	$26.95

Robots, Androids and Animatrons (1997)



McGraw-Hill Demonstrates how to put together the latest in robotics technology. Includes projects like robotic hands that perform a repetitive task, robotic insect with brain, robots with arcade applications, etc. (270 pages)
• Size: 7.5" x 9.0" • Weight: 1.3 lbs.

Part No.	Description	1	10
150498	Robots, Androids & Animatrons	$19.95	$17.95

Robot Builder's Bonanza (2000)



TAB Publishing This fascinating guide offers you a complete, unique collection of tested and proven project modules that you can mix and match to create an almost endless variety of highly intelligent and workable robot creatures. (753 pages) • Size: 7.3" x 9.2" • Weight: 1.2 lbs.

Part No.	Description	1	10
137171	Robot Builder's Bonanza	$23.95	$21.45

Mobile Robots Book (1999)



A.K. Peters This book guides the reader through the step-by-step process of constructing two different inexpensive yet fully functional robots with different capabilities. This book is also a starting ground for creating robots of your dreams. (457 pages)
• Size: 6.1" x 9.1" • Weight: 1.5 lbs.

Part No.	Description	1	10
154131	Mobile Robots Book	$39.95	$34.95

Personal Robot Navigation Book (1998)



A.K. Peters Provides us with the concept and understanding of how robot navigation works, planning the area for placing sensors and other devices for robots to respond to. (199 pages) • Includes 3.5" diskette
• Size: 9.2" x 8.0" • Weight: 1.3 lbs.

Part No.	Description	1	10
159821	Personal Robots Navigation	$49.95	$44.95

Data Acquisition Book (1995)

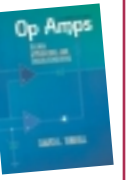


National Semiconductor Data acquisition systems, active filters, analog switches and multiplexers, A-to-D and D-to-A converters, sample and hold, temperature sensors, voltage references and surface mount. (958 pages)
• Size: 7.0" x 9.0" • Weight: 3.0 lbs.

Part No.	Description	1	10
41208	Data Acquisition Book	$17.95	$15.95

Op-Amp Design Book (1996)

Design, Applications and Troubleshooting



Butterworth-Heineman Publishing
This book explains the technical details of operational amplifier circuits in clear and understandable language without sacrificing technical depth. Topics are covered at three levels: operational overview, numerical analysis and design techniques. Troubleshooting techniques use fundamental electronic principles applied in a systematic approach. (488 pages)
• Size: 7.0" x 10.0" • Weight: 2.0 lbs.

Part No.	Description	1	10
134914	Op-Amp Design Book	$54.95	$49.95

The 8052 Microcontroller Idea Book (1997)



- Circuits, programs and applications featuring the 8052-Basic single chip computer (277 pages)
- Size: 7.8" x 10.5" • Weight: 1.6 lbs.

Part No.	Description	1	10
126375	Microcontroller Idea Book ..	$31.95	$28.95

Basic-52 Reference Book (1997)



126252

- Complete reference to programming 80C52-Basic and 8052AH-Basic microcontrollers (167 pages)
- Size: 8.2" x 10.6" • Weight: 1.0 lb.
- **126295:** 3.5" disk with circuit examples

Part No.	Description	1	10
126252	Basic-52 Programm. Ref.	$22.95	$19.95
126295	Basic-52 3.5" disk (MS-DOS) .	9.95	8.95

TTL Logic Data Book (1988)



Texas Instruments Contains specifications and technical information on a broad line of TTL integrated circuits including: standard TTL circuits and Schottky TTL circuits. (1240 pages)

- Size: 6.0" x 8.5" • Weight: 2.6 lbs.

Part No.	Description	1	10
88225	TTL Logic Data Book.....	$34.95	$31.49

CMOS Cookbook (1997)



Newnes Publishing Everything you need to know to intelligently use CMOS circuits.User-oriented, stresses real-world applications, pays attention to detail, with a minimum of math and heavy theory. (512 pages)

- Size: 5.5" x 8.5" • Weight: 1.3 lbs.

Part No.	Description	1	10
39221	CMOS Cookbook	$26.95	$23.95

Electronic Pocket Reference (Third Edition)



McGraw-Hill Publishing Compact and complete, and featuring formulas, tables and diagrams in place of lengthy text description. The only electronics information you need – in a format you can use. (529 pages)

- Size: 4.0" x 6.0" • Weight: 0.9 lbs.

Part No.	Description	1	10
174481	Electronics Pocket Ref.	$24.95	$22.49

Simplified Design of Data Converters (1997)



Newnes Publishing From data converter basics to experimentation and their design, this book offers a wealth of information on data converter integrated circuits and related components. Detailed explanation of analog-to-digital and digital-to-analog conversions. (242 pages)

- Size: 9.2" x 6.0" • Weight: 0.8 lbs.

Part No.	Description	1	10
140610	Data Converters Book.....	$29.95	$26.95

SMD Electronics Projects



Prompt Publications This book provides 30 electronic projects utilizing SMD (surface mount devices). A fairly new technology, these projects are built with readily available components. Projects include earphone radio, Xtal receiver, short-wave receiver, IC radio, FM radio, LED flasher and so on. (296 pages)

- Size: 6.0" x 9.0" • Weight: 1.0 lbs.

Part No.	Description	1	10
172988	SMD Electronics Projects ...	$29.95	$26.95

IC Cross Reference Book (1998)



Prompt Publications The most comprehensive replacement and substitution guide available for engineers, technicians, and anyone who works with ICs and modules. The IC Cross Reference book is from the makers of PHOTOFACT® service documentation. It includes more than 35,000 part and type number listings for the United States, Europe, and the Far East. (152 pages)

- Size: 8.5" x 10.8" • Weight: 0.9 lbs.

Part No.	Description	1	10
124679	IC Cross Reference Book.....	$29.95	$26.95

IC Design Projects Book (1998)



Prompt Publishing Provides you with information of how a handful of versatile ICs work. It will give you information about TTL and CMOS ICs, how power supplies work, how op amps work and how phase lock loops work. It also includes schematic diagrams, a step-by-step guide, parts list, and how to test projects such as battery charger, 5-volt power supply, DC motor control, darkroom timer and so on. (261 pages)

- Size: 7.4" x 9.3" • Weight: 1.0 lb.

Part No.	Description	1	10
153349	IC Design Projects Book.....	$24.95	22.49

IC Projects Book (1997)



Prompt Publishing IC projects was written for hobbyists and technicians who are interested in projects for integrated circuits – projects that you will be able to breadboard quickly and test easily. (212 pages)

- Size: 6.0" x 9.0" • Weight: 0.7 lbs.

Part No.	Description	1	10
143271	IC Projects Book.....	$24.95	$22.49

Laser Design Toolkit (1999)



Prompt Publishing The Laser Design Toolkit will introduce you to this fascinating field, including history, fundamentals and safety, beam modulation and 2-way communication. It will also help you complete exciting projects, like building your first HeNe laser and power supply, working with optics, constructing a laser light show, processing holograms, building a laser light meter and laser based alarm systems, working with laser diodes and more! (223 pages)

- Size: 7.4" x 9.2" • Weight: 1.0 lb.

Part No.	Description	1	10
168567	Laser Design Toolkit	$29.95	$26.95

"REFEREE" Semiconductor Cross-Reference & Directory Software

Unmatched cross-reference for hundreds of thousands of ICs, transistors and diodes!



Most device searches yield a mind-blowing 75 to 2,000 potential replacements! Get case drawings, lead configuration and pin-outs for many devices and replacement numbers for ECG, NTE, SK and GE. Also includes conversion utilities, formulas, resistor library and four industry directories.

- DOS version • Seven 3.5" disks
- Minimum system requirements: 386 compatible or better, 4MB RAM, 17MB hard disk space (for complete database installation) and DOS 5.0+
- Easy to install and use • Weight: 0.8 lbs.

Part No.	Description	1	10
144979	Referee Cross-Reference	$99.95	$89.95

Practical Electronics Handbook



Newnes Publishing A unique book that covers all the key data, facts, practical guidance and circuit design basics needed. This book provides a wealth of clear explanations and practical guidance, making the ideal text for students and practitioners of electronics who have progressed beyond the basics. (561 pages)

- 6.1" x 9.2" • Weight: 1.9 lbs.

Part No.	Description	1	10
175409	Practical Electronics Book ...	$35.95	$31.95

Practical Electronics Book for Inventors



McGraw-Hill Most electronic books deal with formulas and theory, which means practical applications and advice get lost. This book provides you with information needed for practical use in a fomat you can understand. With hand-drawn illustrations, this learn-as-you-go guide shows you what a particular device does, what it looks like and how it compares with other similar devices. This book provides an easy-to-understand overview of basic components, resistors, diodes, capacitors, inductors, rectifiers, amplifiers, voltage regulators, discrete passive and active devices and so on. (604 pages)

- Size: 8.4" x 11" • Weight: 2.8 lbs.

Part No.	Description	1	10
174529	Personal Robots Navigation	$34.95	$31.49

Encyclopedia of Electronic Circuits on CD-ROM



Tab/McGraw-Hill Electrical engineers can turn to this new CD-ROM for an interactive, electronic version of the Encyclopedia of Electronic Circuits. It features 1,000 circuitry drawings from the 5-volume set.

Fully searchable. • Weight: 0.5 lbs.

Part No.	Description	1	10
130500	Encyclopedia CD-ROM	$99.95	$89.95

Computer Service Technician Book (1998)



CF Publications Provides information ranging from CPU architecture and installation, BIOS and CMOS setup, chipsets, math coprocessors, keyboard, mouse, memory chips, and much more! (349 pages)

- Size: 8.5" x 11" • Weight: 2.9 lbs.

Part No.	Description	1	10
159644	Computer Service Tech Book	$59.95	$53.95

Component Identifier & Source Book (1998)



Prompt Publications Identify components and locate their manufacturers fast! This easy to read book will help you identify components and trace their origin. Match logos to their companies. Find new manufacturers after mergers and acquisitions. Excellent for the electronics engineer, technician, or hobbyist. (415 pages) • Size: 8.4" x 10.8" • Weight: 1.9 lbs.

Part No.	Description	1	10
139539	Component Identifier Book..	$34.95	$31.49

Making Your Own Printed Circuit Board (1999)



JV Enterprises No darkroom needed or special equipment. Shows you the steps for drilling and shaping your printed circuit board and the materials you will need. (91 pages)

- Size: 8.5" x 11" • Weight: 0.5 lbs.

Part No.	Description	1	10
141524	Making PCBs Book.....	$14.95	$13.49

Electronic Circuit Guidebooks

Prompt Publications:



Volume 1: Sensors (1997)
A practical approach to sensors and the analog interface. Information about typical sensors and analog sensor circuitry. (339 pages)
• Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No.	Description	1	10
140732	Sensors	$29.95	$26.95



Volume 2: IC Timers (1997)
This book will introduce you by way of resistor-capacitor circuits, in-depth chapters on TTL and CMOS IC timers, LM-555 timers, and other IC devices, op-amp timer circuits and so on. It will also give you some samples of circuits. (240 pages) • Size: 7.3" x 9.3" • Weight.: 1.0 lb.

Part No.	Description	1	10
146966	IC Timers	$29.95	$26.95



Volume 3: Op Amps (1997)
The most commonly used linear IC amplifier in the world, the range of applications varies from audio, communications, TV, broadcasting, instrumentation, control and measurement circuits. It allows you to design and configure your own circuit, and is intended to be a practical aid. Topics in this book include: instrumentation amplifiers, solid state audio circuits, waveform generators and timer circuits, isolation amplifiers and many more. (273 pages)
• Size: 7.5" x 9.3" • Weight: 1.1 lbs.

Part No.	Description	1	10
146974	Op Amps	$29.95	$26.95



Volume 4: Electro-Optics (1997)
This book is about E-O (Electro-Optics) sensors - those transducers that convert light waves into proportional voltage, current, or resistance.
The coverage is wide enough to let you understand the basics of the operation of the device as well as the circuitry used to make these operate. It examines the photoelectric effect, photoconductivity, photovoltaics, and PN junction photodiodes and phototransistors. (406 pages)
• Size: 7.5" x 9.3" • Weight: 1.5 lbs.

Part No.	Description	1	10
147272	Electro-Optics Book	$29.95	$26.95



Volume 5: Digital Electronics
A book about the basics of digital electronics. It is not a computer book, but a book about the fundamental circuits that make up not only computers, but all digital products. It takes a look at logic gates, flip-flops, counters and the ways they are combined to make practical circuits. It will also provide information on number systems, counters, display and decoder devices and more. (234 pages) • Size: 7.4" x 9.3" • Weight: 1.0 lb.

Part No.	Description	1	10
169560	Digital Electronics	$29.95	$26.95

Complete Book of Oscilloscopes (1992)



TAB Publishing Provides an in-depth reference source and practical applications guide. Photographs of different types of oscilloscopes as well as how to read signals are provided in this handbook. Gives you detailed schematic diagrams of types of oscilloscopes. 2nd edition. (305 pages)
• Size: 7.5" x 9.1" • Weight: 1.2 lbs.

Part No.	Description	1	10
147192	Complete Book of Oscillo.	$24.95	$22.49

Teach Yourself Electricity and Electronics Handbook (1997)



McGraw-Hill Assuming that you do not have any background in electronics, this book features conversational writing style, quizzes, self-tests and illustrations that make learning easier. You will be able to design basic electronic circuits, determine waveform combinations, calculate power and impedance, etc. (659 pages) • Size: 7.5" x 9.3" • Weight: 3.0 lbs.

Part No.	Description	1	10
146982	Teach Yourself Electricity	$34.95	$31.49

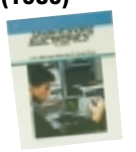
Electronic Surveillance Devices Book (1999)



Newnes Publishing A good reference book of theoretical principles and practical applications on security and surveillance. Includes actual circuit diagrams and construction techniques of transmitters, recording switches and counter surveillance devices. (112 pgs.)
• Size: 6.0" x 9.3" • Weight: 0.5 lbs.

Part No.	Description	1	10
147184	Electro. Surveillance Device	$39.95	$35.95

Understanding Electronics (1989)



TAB Publishing A thorough examination of dozens of components. You'll learn exactly what each one is, what it looks like, what it does, and in what types of circuits it is used. (205 pages)
• Size: 7.3" x 9.3" • Weight: 0.9 lbs.

Part No.	Description	1	10
73664	Understanding Electronics	$13.95	$12.49

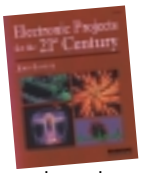
How to Test Almost Everything Electronic (1993)



TAB Publishing Filled with easy-to-follow instructions that show you how to troubleshoot all types of electronic systems. Learn the many uses of electronic tools and test equipment and systematic troubleshooting using flowcharts. (326 pages)
• Size: 7.4" x 9.3" • Weight: 1.3 lbs.

Part No.	Description	1	10
126199	How to Test Everything	$14.95	$13.49

Electronics Projects for the 21st Century (1997)



Prompt Publications If you are an electronics hobbyist with interest in science and technology, this book is a welcome addition in your library. Filled with nearly 2 dozen projects such as Geiger counter, laser power supply for Holography, and Pinhole camera. The book includes a brief history of the project you are about to create, parts list, and schematic diagram. (256 pages)
• Size: 9.3" x 7.5" • Weight: 1.0 lb.

Part No.	Description	1	10
145461	Elec. Proj. for the 21th Cen.	$24.95	$22.49

Now an easier way to get real time information

- Up to the Minute Pricing and Inventory Information
- Order Tracking
- Technical Support
- Product Information and Photographs
- New and Special Product Offers



www.jameco.com

Understanding Telephone Electronics (1997)



Newnes Publishing Describes how conventional telephone systems operate and how digital electronics replace them. Provides an overview of state-of-the-art speech, circuits, dialing, ringing, and central office electronics. Provides an in-depth review ofmodems and digital technique transmissions. (367 pages)
• Size: 7.4" x 9.3" • Weight: 1.4 lbs.

Part No.	Description	1	10
75504	Understanding Tele Electronics	$24.95	$22.49

Detector Circuits Book (1997)



Newnes Publishing Why look through an encyclopedia of circuits when you can choose a circuit sorted by application. This book provides you with fast and easy access to more than 300 ready to use circuits in their original form. (224 pages)
• Size: 7.0" x 9.3" • Weight: 1.0 lb.

Part No.	Description	1	10
151466	Detector Circuits Book	$24.95	$22.49

Telephone Project Book (1998)
for Electronics Experimenters



Prompt Publications Includes projects such as 16-channel DTMF controller, automatic bell, automatic tape controller switch, hands-free headset telephone and long distance call restrictor. (205 pages)
• Size: 7.5" x 9.0" • Weight: 0.9 lbs.

Part No.	Description	1	10
159783	Telephone Project Book	$29.95	$26.95

Optoelectronics Book (1997) Volume 1



Prompt Publications If you, or someone you know, has an interest in optoelectronics, this informative book is for you. Written and designed as a self-teaching text, it covers the basic concepts of optoelectronics, photometrics, and optics. (264 pages)
• Size: 10.9" x 8.3" • Weight: 0.5 lbs.

Part No.	Description	1	10
139547	Optoelectronics Book	$32.95	$29.95

Simple, Low Cost Electronics Projects (1998)



Technology Publishing Electronics is the art of creating useful devices from components. This book will guide you through step-by-step instructions on how to build, test and pack the projects. With a complete list of components, projects include: inductance and semiconductor testers, a variable frequency audio oscillator, voltmeter, multimeter, and much more! (216 pages)
• Size: 8.5" x 11.0" • Weight: 1.2 lbs.

Part No.	Description	1	10
154991	Electronics Projects	$19.95	$17.95

Power Supplies Project Book (1997)



Prompt Publications Guides you through the fundamentals of power supplies to design and construction of a power supply system. Includes basics of AC and DC, regulated and unregulated, linear and switching and more. (124 pages)
• Size: 6.0" x 9.0" • Weight: 0.4 lbs.

Part No.	Description	1	10
145453	Power Supplies Project Book	$19.95	$17.95

Pocket PC Reference (1998)

Sequoia Publishing



- Full DOS 6.22 and earlier command reference • ASCII and Hex codes
- Hard disk specs and configuration data on over 3200 drives
- Hardware and software interrupts
- Expanded PC industry phone book with over 3,500 main and tech support phone numbers • Modem settings
- PC error codes • Cable and connector pinouts
- I/O and memory maps • Video scan frequencies
- 576 pages • Size: 3.3" x 5.4" • Weight: 0.3 lbs.

Part No.	Description	1	10
76806	Pocket PC Reference	$13.95	$12.49

Parallel Port Complete (1999)

Lakeview Research A practical, hands-on approach for users of PCs and their connections to parallel ports. This state-of-the-art book offers many new tips on how to get the most out of your parallel port. New enhanced (EPP) and extended capabilities (ECP) types that are found on most new systems are covered. (343 pages)



- Windows® 3.1 and Windows® 95 • PC to PC links
- How to select cables • Includes 3.5" software disk
- Size: 7.0" x 10.0" • Weight: 1.4 lbs.

Part No.	Description	1	10
138261	Parallel Port Complete w/ SW	$39.95	$35.95

Serial Port Complete (1998)

Lakeview Research RS-232 and RS-485 are the most versatile, inexpensive interfaces for linking, but their hardware and programming are often misunderstood. This book will provide you with everything you need to design, program, install and troubleshoot the links you set up. (306 pages)



- 3.5" diskette included
- Size: 7" x 10" • Weight: 1.3 lbs.

Part No.	Description	1	10
154771	Serial Port Complete Book	$39.95	$35.95

PC Hardware Projects Vol 2 (1997)

Prompt Publications If you have always wanted to work with stepper motors and need a setup to drill your own PC boards quickly and accurately, this is the book that will help you. Includes companion disk. (222 pages) • Size: 7.8" x 9.3"



• Weight: 1.0 lb.

Part No.	Description	1	10
143280	PC Hardware Projects Vol 2	$29.95	$26.95

PC Hardware Projects Vol 3 (1998)

Prompt Publications Instructs how to design a test and measurement device that connects to a PC digital I/O card. Explains how to export stored data. Includes companion disk. (204 pages)



• Size: 7.4" x 9.0" • Weight: 0.9 lbs.

Part No.	Description	1	10
151896	PC Hardware Projects Vol 3	$29.95	$26.95

Drive and Memory Troubleshooting Book

McGraw-Hill Publishing Contains information about the newest memory technologies along with helpful tips and techniques for selecting, installing, optimizing and troubleshooting which are all applicable to all PC computer systems. Provides information such as maintaining peak hard drive performance, DVD-ROM drive installation and troubleshooting, overcoming PC card conflicts and problems. (541 pages)



- Size: 4.7" x 8.0" • Weight: 1.2 lbs.

Part No.	Description	1	10
173201	Troubleshooting book	$17.95	$15.95

Controlling the World with Your PC (1994)

Hightext Publishing Make your PC control stepping motors, monitor fluid levels, or switch appliances on and off! Each of the circuits in this book connects directly to the parallel printer port of your PC and comes complete with a circuit diagram and listings for control software written in Pascal, C and BASIC. Applications include: generating audio and speech tones converting input voltages to binary values, driving high power loads and DC relays, and converting DTMF to binary values. (257 pages)



- 3.5" disk is included • Size: 8.5" x 11" • Weight: 1.5 lbs.

Part No.	Description	1	10
116943	Controlling the World w/ Your PC	$32.95	$29.95

Upgrading and Repairing PC's (1999)

SAMS Publishing Ideal for individuals who want an in-depth understanding of IBM and compatible computers. Contains technical specifications, information, and guidelines for upgrading and repairing all Intel Pentium® and compatible systems. (1628 pages) • Includes CD-ROM



• Size: 7.4" x 9.0" • Weight: 4.1 lbs.

Part No.	Description	1	10
29284	Upgrading & Repairing PC's	$59.95	$53.95

Troubleshooting and Repairing Computer Monitors (1997)

TAB Publishing CRT alignment and degaussing; state of the art plasma displays; specs. and architectures of monochrome, CGA, EGA, and VGA monitors; supports both CRT and LCD monitors (298 pages)



• Size: 9.5" x 7.5" • Weight: 1.5 lbs.

Part No.	Description	1	10
123764	Troubleshooting Monitors	$24.95	$22.49

Video Scrambling and Descrambling for Satellite and Cable TV (1998)

2nd Edition

This book is for the commercial and hobbyist fields to increase the awareness of the many non-video opportunities in the satellite communications field. (292 pages)



• Size: 8.5" x 11.0" • Weight: 1.3 lbs.

Part No.	Description	1	10
136442	Video Scram & Descrambling	$29.95	$26.95

Electric Motors and Control Techniques

TAB Publishing Explains how different types of motors operate, and how electronic control devices can be used to improve efficiency in a wide range of applications. (294 pages)



• Size: 7.3" x 9.2" • Weight: 1.1 lbs.

Part No.	Description	1	10
137162	Electric Motors & Control	$24.95	$22.49

Everything You Need To Develop Custom USB Peripherals Book

Lakeview This USB complete book was designed from the ground up to provide easy-to-use interface for computer peripherals. The book covers topics such as what USB can do, transfer types, chip choices, what's inside a USB controller, writing firmware, how the host communicates and more. (396 pages) • Includes CD-ROM



• Size: 7.0" x 9.0" • Weight: 1.5 lbs.

Part No.	Description	1	10
171900	Complete USB Book	$49.95	$44.95

Build Your Own Pentium® II (1998)

McGraw-Hill A complete guide book to building your own Pentium® II. Also includes step-by-step instructions on how to upgrade old computers to Pentium® II technology systems and much more! (535 pages)



• Size: 7.4" x 9.3" • Weight: 2.4 lbs.

Part No.	Description	1	10
153357	Build Your Own Pentium® II	$27.95	$24.95

Bigelow's Build Your Own PC Pocket Reference (1998)

McGraw-Hill Tells how to build your own PC from choosing your components, assembling the unit in an orderly manner, testing the system, troubleshooting, taking advantage of upgrades, and installing and optimizing Windows® 95. Also includes an appendix of PC acronyms. A must for students and computer users. (273 pages)



• Size: 4.7" x 8.0" • Wt.: 0.7 lbs.

Part No.	Description	1	10
151829	Build Your Own PC	$19.95	$17.95

Troubleshooting and Repairing Computer Printers (1996)

TAB Publishing Throughly revised and updated, this book gives you specific maintenance and repair techniques. Includes 150 symptoms and solutions; uses flow charts and detailed schematics for troubleshooting and repairs. You will also learn about common printing problems under Windows® and Windows® 95. Includes companion disk offer. (472 pages) • Size: 7.3" x 9.2" • Weight: 1.8 lbs.



Part No.	Description	1	10
133209	Computer Printers	$27.95	$24.95

Troubleshooting and Repairing Consumer Electronics Without a Schematic (1997)

TAB Publishing Learn how to locate, test, and repair defective components in audio amplifiers, car radios, cassette decks, TV chassis, compact disc players, power supplies, AM/FM receivers and VCRs. (475 pages)



• Size: 7.4" x 9.3" • Weight: 1.1 lbs.

Part No.	Description	1	10
136080	Consumer Electronics	$24.95	$22.49

The IRQ Book with CD-ROM (1999)

McGraw-Hill Error messages and system halts are common problems with PCs as they try to cope with newer modems, scanners, printers, video boards and other devices. This book will emphasize how to properly configure your PC. (326 pages)



• Includes CD-ROM • Size: 7.4" x 9.2" • Wt.: 1.6 lbs.

Part No.	Description	1	10
164751	IRQ Book with CD-ROM	$29.95	$26.95

CD-R / DVD Disk Recording Book (2000)

McGraw-Hill Includes topics such as creating and replicating discs inexpensively without errors, techniques for digitally recording music, video and multimedia, understanding CD-R and DVD, creating content quickly using tools and applications. Includes CD-ROM with trial software. (528 pages) • Size: 7.2" x 9.4" • Wt.: 2.2 lbs.



Part No.	Description	1	10
175231	CD-R/DVD Disc Recording	$44.95	$39.95

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www.jameco.com

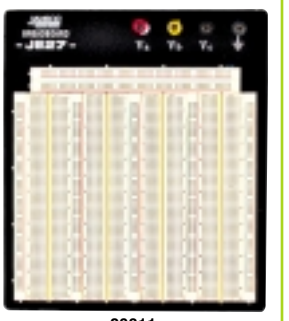
Jameco's long-lasting breadboards feature screen printed color coordinates and are suitable for many kinds of prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use Jameco AC/DC breadboard power supply for both digital and analog circuit requirements. (See page 103)

- Accepts most electronic components including integrated circuits and transistors for digital and/or analog circuitry
- Pins are identified by numbered rows and columns
- Ideal for high frequency and low noise circuits
- 0.1" hole spacing • One-year warranty
- WBU5 and JE series do not interconnect

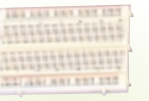

20757


20773

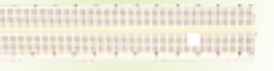

20790


20811

Attention Educators! Buy jumper wire in bulk and SAVE! (see Hook-up Wire on page 62)


20600

94457


20669


20722


136901


77825

JE Series Key Features:
- Low static, plastic body – CMOS safe
- Nickel plated clips designed to withstand up to 5,000 insertion cycles
- Breadboard strips connect together to form larger working areas
- Components are easily interconnected using 20-28 AWG wire (see 19289 & 20079 – below)
- Use to breadboard and debug circuit designs
- Some models feature heavy-duty aluminum backings

WBU5 Series Key Features:
- Horizontal assembly corresponds to the operation flow design of the PC boards for handy operation
- Round hole design makes the electric connection better
- Formed with V-shaped cross-sectional groove, which allows DIP IC pins inserting across two parts and to increase the rate of utilization due to small pitch
- Dovetail protrusions and recesses designed to connect two adjacent tightly together

Part Number	Product Number	Terminal Strips	Bus Strips	Contact Points	Binding Posts	Breadboard Size L x W (In.)	Baseplate Size L x W (In.)	Weight (lbs.)	Pricing 1	10	50	100
94457	JE19	0	1	100	0	6.5 x 0.4	—	0.04	$1.95	$1.75	$1.49	$1.25
20600	JE21★	1	2	400	0	3.3 x 2.1	—	0.13	4.95	4.49	3.95	3.59
20669	JE22★	1	0	630	0	6.5 x 1.4	—	0.20	4.95	4.49	3.95	3.25
20722	JE23★	1	2	830	0	6.5 x 2.1	—	0.30	7.95	6.95	6.25	5.59
20757	JE24★	2	1	1,360	2	6.5 x 3.1	8.5 x 4.0	0.60	11.95	10.95	9.95	8.95
20773	JE25★	2	4	1,660	3	6.5 x 4.3	8.5 x 5.1	0.80	17.95	15.95	13.95	12.49
136901	WBU504	2	3	1,600	4	5.5 x 5.5	7.4 x 6.3	0.90	21.95	19.95	17.95	15.95
20790	JE26★	3	5	2,390	4	6.9 x 5.8	9.1 x 6.9	1.10	22.95	20.49	18.49	16.95
20811	JE27★	4	7	3,220	4	7.3 x 7.5	9.5 x 8.3	1.40	30.95	27.95	25.95	23.95

Part No.	Description	1	10	25
77825	Breadboard pin to breadboard pin test leads (20 pk), color coded 4 each (red, yellow, blue, black, white), 20 AWG wire, 5.9"L (15cm)	$11.95	$10.95	$9.95

JAMECO Reinforced Jumper Wires

- 24 AWG-300 volts
- Reinforced pin ends for durability
- 10 pack assortment: (2) yellow, (2) white, (2) red, (2) black, and (2) blue
- For breadboard applications
- Weight: 0.04 lbs.


126341

Part Number	Product Number	Length (mm / inch)	1	10	100
126359	JW50	50 / 1.97	$3.95	$3.49	$2.95
126341	JW100	100 / 3.94	4.09	3.65	3.09
126324	JW200	200 / 7.87	4.25	3.75	3.25

Double Binding Posts Dual Banana

- Red/black design
- Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W • Weight: 0.04 lbs.



Part No.	Description	1	10	100	1000
125196	Binding post	$2.49	$1.95	$1.75	$1.39

1" Screw Type Binding Posts (2)

- 0.16" hole for banana test leads
- Chassis mount with lock washer and nut
- Solder tab hole: 0.06" diameter
- Requires 0.32" mounting hole
- For both wire and standard banana
- Includes one red and one black insulated post
- Size: 1.0"L x 0.5"Dia. • Weight: 0.04 lbs.



Part No.	Description	1	10	100	1000
71239	Binding posts (2)	$.99	$.85	$.69	$.59

1.75" Screw Solder Binding Posts (2)

- 0.16" hole for banana test leads
- Chassis mounting
- Solder post: 0.0625" diameter
- For both wire and standard banana
- Includes one red and one black insulated post
- Size: 1.8"L x 0.5"Dia. • Weight: 0.04 lbs.



Part No.	Description	1	10	100	1000
77690	Binding posts (2)	$1.09	$.95	$.79	$.69

JAMECO Wire Jumper Kit (350 pc.)


19289

- 25 each of lengths 0.1 through 5.0 (14 sizes) • 350 assorted lengths in 13 colors
- Pre-stripped/pre-formed 22 AWG solid wire jumpers

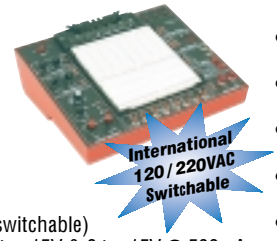
19289: 350 pieces wire jumper kit
- Handy, durable, clear plastic case
- Weight: 0.5 lbs.

Used for interconnect component with above Breadboards

20079: 350 pieces refill for 19289
- Case not included • Weight: 0.2 lbs.

Part No.	Description	1	10	50	100
19289★	Wire jumper kit	$9.95	$8.95	$7.95	$6.95
20079★	Refill for 19289	7.95	6.95	6.25	5.49

JAMECO® Digital-Analog Lab



Solderless Breadboard
2712 interconnected nickel plated tie points, fitting all DIP sizes and all components with solid leads AWG #22-30 (0.3-0.8mm)

DC Power Supplies
Input power:
120/220VAC; 50/60Hz (switchable)
Variable DC output: 0 to +15V & 0 to -15V @ 500mA
Fixed DC output: +5VDC, 1A; -5VDC, 300mA

Function Generator
Frequency range: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
Sine wave output: 0–8 Vpp variable
Triangle wave output: 0–6 Vpp variable
Square wave output: 0–8 Vpp variable

Other features:
- (2) variable resistors: VR1=1KΩ, VR2=100KΩ
- (8) data switches • 2.5" dia. 8Ω/.25W speaker
- (2) pulse switches (2 sets of output: Ā, A, B̄, B)
- (2) banana sockets, (2) BNC jacks
- (1) 2 segmented LED displays (digit height: 0.3")
- (8) red LEDs with separate input terminals
- Includes power cord and manual • One-year warranty
- Size: 12.8"W x 9.8"D x 3.7"H • Weight: 8.5 lbs.

Part No.	Description	1	5	10
136266	Digital-analog lab	$349.95	$319.95	$289.95

JAMECO® AC/DC Power Supply for Breadboards



With built-in short-proof regulated power supplies.
- Indicator lamps and power fuses
- Just plug-in and start to use
- Compact and lightweight
- For both digital and analog circuits

Output Specifications:
+5VDC @ 1A; -5V @ 300mA fixed
0 to +15VDC @ 500mA variable
0 to - 15VDC @ 300mA variable
12-6-0-6-12 tapped VAC, 300mA fixed

- Color: beige
- Input power: 120/220VAC; 50/60Hz (switchable)
- Compatible w/ test leads P/N 77841 (pg 137)
- Size: 7.4"W x 5.5"D x 2.6"H
- Weight: 5.5 lbs. • One-year warranty

International 120/220VAC Switchable

Part No.	Description	1	10	25
77681	Power supply	$119.95	$109.95	$99.95

22 AWG Solid Hook-up Wire



600 Volts:
- 105°C • PVC insulation
- Temperature range: -55°C to +105°C
- Tinned copper
- MIL-W-16878D Type B
- Passes UL VW-1 flame test
- For use with breadboards such as the JE20 series (pg 102)
- Weight: 100' (0.3 lbs.); 1000' (3.8 lbs.)



Part No.	Product No.	Color	100 ft.
36767	122BE/C	Blue	$3.95
36791	122BK/C	Black	3.95
36821	122G/C	Green	3.95
36855	122R/C	Red	3.95
36880	122W/C	White	3.95
36919	122Y/C	Yellow	3.95

Part No.	Product No.	Color	1000 ft.
36775	122BE/K	Blue	$29.95
36804	122BK/K	Black	29.95
36839	122G/K	Green	29.95
36863	122R/K	Red	29.95
36898	122W/K	White	29.95
36927	122Y/K	Yellow	29.95

JAMECO® Powered Project Board



- Back panel has ground terminal
- Outputs are short circuit protected
- Model EP-3 edge plate for non-DIP size components
- Solderless breadboard with 2420 tie points
- DC power supplies: +5V @ 1A, variable power 0 to +15VDC and 0 to -15VDC @ 500mA
- Input power: 120/220VAC; 50/60Hz (switchable)
- Replacement fuse: P/N 103907 (pg 76)
- Includes power cord • Power switch with light
- Breadboard size: 7.4"L x 6.8"W
- Box size: 9.8"L x 8.0"W x 2.6"H
- Weight: 6.8 lbs. • One-year warranty

Part No.	Description	1	10	25
136258	Powered breadboard	$99.95	$89.95	$79.95

JAMECO® 8/16-Bit Solderless Plug-In Breadboard (JE604)



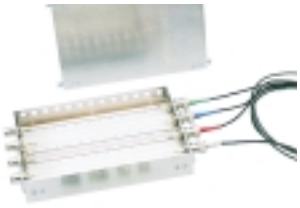
- IBM PC/XT and higher compatible
- 62 data I/O lines and a DB25 connector for interfacing to peripherals
- External DB25 female connector
- 24 14-pin IC capacity
- Clearly labeled bus lines • 2,352 contact points
- Size: 13.8"L x 5.0"W • Durable construction
- One-year warranty • Weight: 1.0 lb.

Easy PC/XT/AT Prototyping!

Part No.	Description	1	10	25
81672	8/16-bit breadboard	$59.95	$49.95	$44.95

JAMECO® DC to 50MHz Wideband Prototype Board

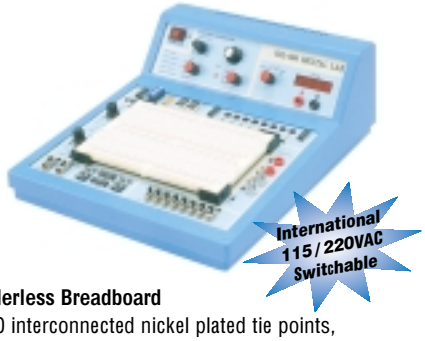
Ideal for engineering labs!



This 2nd generation solderless board is ideal for high speed low noise analog and mixed signal circuits. Useful for testing of instrumentation, signal conditioning, and acquisition circuits.
- Low inductance grounding system and power line decoupling circuits for operation over 50MHz
- Four dedicated ground buses and four uncommitted bus lines
- Eight BNCs for signal and power connections
- Side rails for added connectors and power devices and switches
- Working area: 6.5" x 4.3" with 1660 holes (0.1" spacing) • Includes cover
- SOIC/DIP and microprocessor/ DIP adapters available • Size: 7.4"L x 5.1"W x 1.5"H
- Weight: 1.2 lbs. • One-year warranty

Part No.	Description	1	10	25
132177	Wideband protobrd	$59.95	$53.95	$48.95

JAMECO® Digital Lab



Solderless Breadboard
1580 interconnected nickel plated tie points, fitting all DIP sizes and all components with solid leads AWG #22-30 (0.3-0.8mm). Horizontal layout.

DC Power Supplies
All DC power supplies equipped with short circuit protection
Variable DC power: 0 to +15V and 0 to -15V
+5VDC power supply: 5V ± 0.25V (no load to full load) maximum output current 1 amp
-5VDC power supply: -5V ± 0.25V (no load to full load) maximum output current 0.1 amp

Two 7-Segment Displays (digit height: 0.3")
Common cathode operation

Function Generator (5 ranges)
Frequency range: 1Hz–10Hz, 10Hz–100Hz, 100Hz–1kHz, 1kHz–10kHz, 10kHz–100kHz
Sine wave output: 0–8 Vp-p variable
Triangle wave output: 6Vp-p fixed
Square wave output: ±5V fixed

Our most popular digital lab!

Digital Voltmeter (DVM) 4 ranges
3 1/2-digits LED display (digit height: 0.3")
0–199.9V, 0–19.99V full scale
0–1.999V, 0–199.9mV full scale
- Input AC voltage: 115VAC/220VAC; 50/60Hz – switchable underneath digital lab
- Size: 10.6"W x 13.3"D x 5.0"H (back panel)
- One-year warranty • Wt: 8.1 lbs. • Digit height: 0.3"

Part No.	Description	1	10
75838	Digital lab	$269.95	$244.95

Compatible International Cords
- For P/N 75838, 77681, 136258 & 136266
- *See page 81 for complete specifications*

Part No.	Country	1	10
174633	UK/Ireland	$5.95	$5.49
117911	Europe	3.95	3.49
172283	Italy	2.95	2.49

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JAMECO Plastic Fliptop Boxes



100255

Includes removable spacers that can be used to divide the box.

- Color/materials: clear plastic box with a clear plastic lid

100255: Size: 8.4"L x 4.5"W x 1.4"H

- Includes dividers for up to 18 (1.4" x 1.5" each) compartments

148902: Size: 10.2"L x 4.7"W x 1.6"H

- Includes dividers for up to 12 (1.7" x 2.3" each) compartments

Part No.	Description	Wt. (lbs.)	1	10	100
100255	Fliptop box	0.3	$1.95	$1.75	$1.39
148902	Fliptop box	0.5	3.95	3.49	2.95

III Bug Boxes



11375

11341

- Anti-static plastic
- Fits in bug cage (11332)
- (11341) stores sixty 8-pin or thirty 16-pin DIPs
- (11375) designed to store components
- Color: blue • Weight: 0.11 lbs.
- Box size: 4.9"L x 3.3"W x 0.6"H

Part No.	Description	1	10	100
11341	Fixed: 30 individual comp.	$3.95	$3.49	$2.75
11375	Adjustable: 3 comp./6 vertical and 6 horizontal dividers	4.49	3.95	3.49

III Bug Trays



11826

11800

- Fits in bug cage (11332)
- (11826) Open: 1 compartment 4.6"L x 3.2"W x 0.4"H
- (11800) Horizontal: 10 compartments 3.2"L x 0.4"W x 0.4"H ea.
- Tray size: 4.8"L x 3.6"W x 0.5"H • Weight: 0.08 lbs.

Part No.	Description	1	10	100
11826	Open bug tray	$2.95	$2.49	$1.95
11800	Horizontal bug tray	2.95	2.49	1.75

III Bug Cage



Bug boxes not included

- Hold bug boxes or trays
- Modular and interlocking
- Color: blue • Weight: 0.7 lbs.
- Cage size: 5.0"L x 3.9"W x 5.1"H

Part No.	Description	1	10	100
11332	Bug cage	$6.95	$5.95	$4.95

JAMECO Stackable Drawers



- Case size: 4.5"L x 4.4"W x 2.3"H
- Drawer size: 4.4"L x 4.0"W x 0.9"H
- Color: blue/white • Wt.: 0.5 lbs.

Part No.	Description	1	10	100
11906	White case/blue drawers	$2.95	$2.49	$1.95

JAMECO Plastic PCB Slot Cases

with Metal Mounting Flange and Hardware



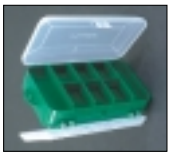
Case is made of plastic with internal slots for PCB mounting. Great for small electronic projects, power supplies, and other mini projects that need small cases. Flanged back for wall or panel mounting. Hardware included. • Color: black

Speedy Box!

Part No.	Size (L"xW"xD")	Wt. (lbs.)	Price
154173	5.7 x 3.3 x 1.9	0.3	$2.95
154181	7.1 x 4.3 x 2.4	0.5	3.95

JAMECO Plastic Fliptop Box

Double Sided Box



- Unique double-sided design allows box to be opened from both top and bottom – like having two boxes in one!
- Color: green • Wt.: 0.3 lbs.
- Size: 6.5"L x 4.0"W x 1.5"H

Part No.	Description	1	10	100
148865	Double sided box	$2.95	$2.49	$1.95

Wall Transformer Enclosures



115051

- Enclosures include 3-prong power plug and cable strain relief • Material: noryl
- Color: black • Wt.: 0.2 lbs.
- Size: P/N 115051 – 3.35"H x 2.68"W x 2.22"D
  P/N 115043 – 3.34"H x 2.70"W x 2.26"D

Part No.	Style	1	10	100
115051	Non-vented	$1.95	$1.69	$1.25
115043	Vented	1.95	1.69	1.39

JAMECO ABS Table Top Enclosure

Vented for air circulation



Two piece, screw together housing makes it perfect for enclosing your project. Two slide on strain reliefs can be used for AC/DC power entry and sensor/control cable. Vents allow air circulation with four feet to promote bottom to top air movement.

- Includes 2-piece ABS plastic enclosure, (2) cable strain reliefs, (4) housing screws, (3) internal mounting holes (0.07" dia.) for project board and transformer well (2.60"L x 1.25"W)
- Size: 5.0"L x 3.5"W x 2.7"H • Weight: 0.4 lbs.

Part No.	Description	1	10	100
151159	Table top enclosure	$4.95	$4.49	$3.49

Digital Panel Meter Enclosure



- Includes connecting strips & screws
- Compatible w/ DPM188 digital panel meters (pg 37) • Wt.: 0.4 lbs.
- Case size: 6.0"W x 2.8"D x 2.8"H
- Display window size: 1.9"W x 0.8"H • Aluminum

Part No.	Description	1	10	25
138974	DPM enclosure	$8.95	$7.95	$6.95

Quantum Stackable Flip Down Case



- Designed for multiple stacking configurations
- Six compartments, with integrated slots, open to a 45˚ angle
- Exterior housing molded from polystyrene
- Can be mounted on rails, frames, and mobile stands
- Bins molded from K resin & crystal styrene for clarity and durability • Drawer size: 3.7"W x 4.0"H x 2.9"D
- Size: 23.6"W x 3.6"D x 4.5"H • Weight: 2.7 lbs.

Part No.	Description	1	10	100
154190	6 drawer flip down	$11.95	$10.95	$9.95

JAMECO Component Cabinet



81701



Drawer (85454)
Divider (85446)

- Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels
- Drawer can be divided into 4 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 6.0"D x 15"W x 7.9"H • Wt.: 4.7 lbs.
- Drawer size: 5.5"L x 2.7"W x 1.5"H
- Divider size: 2.4"L x 1.1"H • Divider weight: 0.01 lbs.

✳ **Prepackaged: please order in increments of 10 or 100**

Part No.	Description	1	10	50
81701	Component cabinet	$14.95	$13.49	$11.95
85454	Drawer for cabinet	.69	.59	.49
85446	Divider for drawer	✳	.19	.15

JAMECO Professional Tool Case



- Aluminum framed
- Padded interior and adjustable dividers (6 sections)
- Detachable tool organizer for easy access • Weight: 8.1 lbs.
- Color: black with aluminum trimmings
- Size: 18"L x 13"W x 6"H

Part No.	Description	1	10
149016	Professional tool case	$39.95	$35.95

Plastic IC Storage Tubes and Rubber Rail Stops

29516: Thin tube (rail) fits 8, 14, 16, 18, 20 and 22-pin integrated circuits. Length: 23.75"
29524: Wide tube (rail) fits 24, 28, 32, 40 and 48-pin integrated circuits. Length: 20"
29583: Rubber stops used to plug plastic rail ends



29524



29583

✳ **Prepackaged: please order in increments of 10 or 100**

Part No.	Prod. No.	Description	Wt. (lbs.)	1	10	100
29516	RIC20	Thin plastic rail	.04	$.49	$.39	$.29
29524	RIC220	Wide plastic rail	.07	.49	.39	.29
29583	RRS	Rubber stop	.001	✳	.05	.04

Information at Your Fingertips

Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

3M Adhesive Rubber Feet

These are perfect for project boxes, providing a non-slip, non-scratch surface.



Fig. 1



Fig. 2



Fig. 3



Fig. 4



126981



119618

Part No.	Product No.	Type	Fig.	Pack	Dimensions (W" x H")	1	10	50
119618	SJ5012BLK4	Black cylindrical	1	4	.50 x .14	$1.25	$.99	$.75
142658	SJ5012BLKC	Black cylindrical	1	100	.50 x .14	5.95	5.35	4.79
142771	SJ5008BLKC	Black tapered square	2	100	.50 x .12	5.95	5.35	4.79
142682	SJ5018BLKC	Black tapered square	3	100	.50 x .23	8.95	7.95	6.95
126981	SJ5023BLK4	Black tapered square	4	4	.81 x .30	1.95	1.75	1.59
142666	SJ5023BLKC	Black tapered square	4	100	.81 x .30	14.95	12.95	11.49

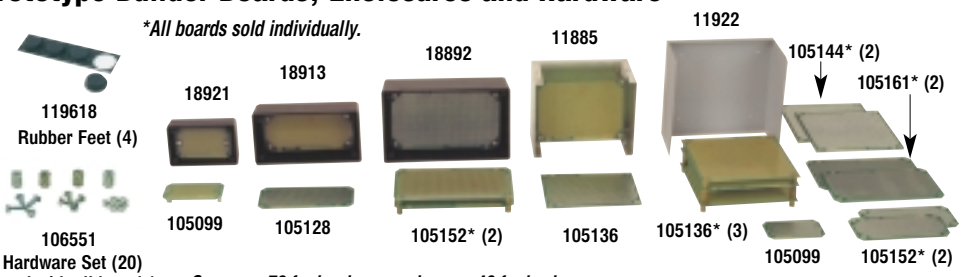
JAMECO Prototype Builder Boards, Enclosures and Hardware

Call for large OEM pricing.

The Jameco Prototype builder boards are specifically designed to fit into our ABS speedy boxes, die cast aluminum enclosures, aluminum boxes, metal cabinets and heavy duty instrument cases. These pre-cut boards will allow the builder an immediate start on prototyping circuits. Each board has 2 or 4 mounting holes compatible with P/N 106551, PC board mounting hardware.

Board description: laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid. PC board mounting hardware listed bottom right.

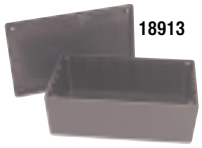
*All boards sold individually.



See page 73 for hardware and pages 46 for knobs

See page 106 for more details

JAMECO ABS Speedy Enclosures



Will not crack or split when drilled or punched. PCB mounting slots on all four sides and the lid has a lip for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are for interior dimensions. • Color: black • ABS plastic

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
18921	H2855★	3.1" x 2.0" x 0.9"	0.1	$2.25	$1.95	$1.75	$1.39
18913	H2853	4.9" x 2.5" x 1.5"	0.2	2.49	2.25	1.95	1.75
18892	H2851	6.0" x 3.5" x 1.9"	0.4	2.95	2.49	2.25	1.95
18905	H2852★	7.5" x 4.3" x 2.3"	0.5	3.95	3.49	2.95	2.49

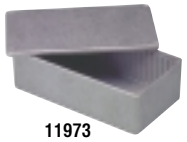
Printed Circuit Boards for ABS Speedy Enclosures



• Power/ground, perimeter bus with pad per hole (except P/N 105099)
• Plated one side holes • Weight: 0.1 lbs.

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105099	2855PCB★	2.7" x 1.6"	288	$4.95	$4.49	$3.95	$3.49
105128	2853PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105152	2851PCB	5.5" x 3.1"	1450	9.95	8.95	7.95	6.95
105161	2852PCB★	7.0" x 3.6"	2225	13.95	12.49	11.25	9.95

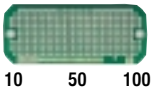
JAMECO Die Cast Aluminum Enclosures



High quality die cast aluminum cases come with channeled walls for easy PCB mounting. Ideal for RF circuits because the lid forms an effective screen against RFI interference. Made from aluminum, an excellent heat-sink, these cases are great for high temp circuits (up to 600°C). Complete with screws.

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
11957	B5002	3.9" x 2.0" x 1.0"	0.2	$3.95	$3.49	$3.19	$2.79
11965	B5004	4.7" x 2.4" x 1.6"	0.4	6.95	6.25	5.59	4.95
11973	B5006	7.5" x 4.3" x 2.4"	1.2	9.95	8.95	7.95	6.95

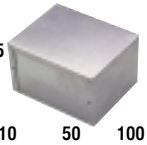
Printed Circuit Boards for Die Cast Aluminum Enclosures



• Power/ground, perimeter bus with pad per hole
• Plated one side holes • Weight: 0.1 lbs.

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105101	5002PCB	3.5" x 1.5"	365	$6.95	$6.25	$5.59	$4.95
105128	5004PCB	4.4" x 2.0"	669	7.95	6.95	6.25	5.59
105161	5006PCB★	7.0" x 3.6"	2225	13.95	12.49	11.25	9.95

JAMECO Aluminum Enclosures

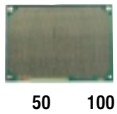


Ideal boxes for those projects that get left lying around! Put them in an economical aluminum enclosure. The enclosure come in two pieces which slide together.

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
11869	B2300	4.0" x 2.0" x 2.8"	0.2	$3.95	$3.49	$2.95	$2.49
11885	B2320	5.0" x 4.0" x 3.0"	0.4	5.95	4.95	4.49	3.95
11893	B2335	7.0" x 6.2" x 4.6"	0.8	7.95	6.95	6.25	5.59

Printed Circuit Boards for Aluminum Boxes and Rubber Feet





• Power/ground, perimeter bus w/ pad per hole
• Plated one side holes • Weight: 0.1 lbs.

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110	2300PCB	3.4" x 2.4"	637	$6.95	$6.25	$5.59	$4.95
105136	2320PCB	4.5" x 3.3"	1266	8.95	7.95	6.95	5.95
105179	2335PCB★	6.5" x 5.0"	2829	13.95	12.49	11.25	9.95
119618	Adhesive blk rubber feet .493"Dia. x .14"H (4)			1.25	.99	.75	.65

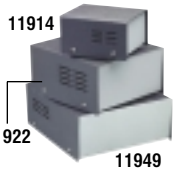
JAMECO ABS Enclosures w/ Clear Tops



Case is made of a gray ABS plastic body with a clear polycarbonate top cover. Includes screws for mounting boards or electronic components, rubber gasket for a tight seal on your equipment and drilled holes for mounting.

Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
141831	203C1	4.6" x 3.2" x 1.8"	0.3	$7.95	$6.95	$6.25	$5.59
141840	203D1	6.3" x 3.2" x 1.8"	0.4	8.95	7.95	6.95	5.95
141858	203F1	7.0" x 5.5" x 2.5"	0.8	9.95	8.95	7.95	6.95

JAMECO Metal Enclosures



High quality metal enclosures are made to suit a large variety of electronics projects and applications. The base is made of aluminum. Slots are located on the sides of the cases for maximum cooling. Cases screw together and come with an attractive two-tone finish.
• Mounting screws and rubber feet included

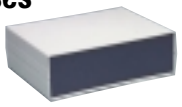
Part No.	Product No.	Size (L x W x D)	Weight (lbs.)	1	10	50	100
11914	B2741	4.0" x 3.3" x 2.2"	0.4	$5.25	$4.49	$4.25	$3.75
11922	B2743	5.9" x 5.3" x 3.0"	0.8	6.95	6.25	5.59	4.95
11949	B2744	7.3" x 6.3" x 2.8"	1.1	7.95	6.95	6.25	5.59

Printed Circuit Boards for Metal Cabinets

• Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	No. of Holes	1	10	50	100
105110	2741PCB	3.4" x 2.4"	637	$6.95	$6.25	$5.59	$4.95
105144	2743PCB	4.7" x 4.5"	1869	9.95	8.95	7.95	6.95
105179	2744PCB★	6.5" x 5.0"	2829	13.95	12.49	11.25	9.95

JAMECO Heavy Duty Instrument Cases



Both cases split apart for ease of working. Four plastic feet molded on unit. P/N 18876 includes ventilation and speaker sound slots.

Part No.	Product No.	Size (L x W x D)	Wt. (lbs.)	Color	1	10	50	100
18868	H2505	7.9" x 6.3" x 2.5"	0.8	gray	$6.25	$5.59	$4.95	$4.49
18876	H2507★	10.0" x 7.5" x 3.1"	1.4	gray	7.95	6.95	6.25	5.59

Printed Circuit Boards for Heavy Duty Instrument Cases

• Power/ground, perimeter bus with pad per hole • Plated one side holes

Part No.	Product No.	Size (L x W)	Wt. (lbs.)	Holes	1	10	50	100
105179	2505PCB★	6.5" x 5.0"	0.1	2829	$13.95	$12.49	$11.25	$9.95
105187	2507PCB★	8.8" x 6.1"	0.2	4771	24.95	22.49	19.95	17.95

JAMECO Instrument Case with 9-volt Battery Compartment



• Molded black plastic with two metal face plates
• Separate 9 volt battery compartment • Size: 5.7"L x 3.4"W

Part No.	Product No.	Height	Wt. (lbs.)	1	10	50	100
118869	H2107	2.2"(H2) x 1.2"(H1)	0.3	$11.95	$10.95	$9.95	$8.95

PC Board Mounting Hardware for Above Enclosures and Cases (4 Sets)

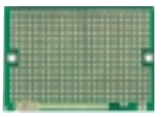


• (4) spacers, (8) screws and (8) washers • Weight: 0.2 lbs.

Part No.	Description	1	10	50	100
106551	PC board mounting hardware	$1.49	$1.19	$.99	$.79

JAMECO & VECTOR ELECTRONIC COMPANY General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and cost effective alternatives to custom designs.


105110

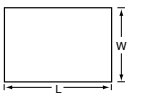

21434


52943

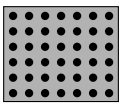

21477

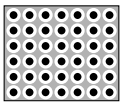
- .062" board thickness • 0.1" hole spacing
- 0.04" hole diameter • 0.08" pad size
- PCB material: epoxy glass; except P/N 43140 and 37612 phenolic
- Plated through pads are double-sided
- All .042" Dia. hole boards use terminals T44, T49, and T421 (see below)
- See opposite page for PCB mounting hardware

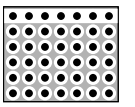
Board Outline

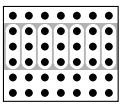


Circuit Patterns


A Holes Only


B Pad Per Hole


C Power/Ground Perimeter Bus with Pad Per Hole


D 3 Hole Solder Pad and Bus

Part Number	Product Number	Size (inches) (W" x L")	Fits Case(s) (see page 105)	Circuit Pattern	Hole Pads	# Holes x Dia.	Power/Ground Busses	Connector I/O or Edge	# Mounting Holes x Dia.	Weight (lbs.)	Pricing 1	10	50	100
105099	2855PCB★	1.60 x 2.70	18921	B	single-sided	288 x .035"	none	none	2 x .115"	.02	$4.95	$4.49	$3.95	$3.49
105101	5002PCB	1.50 x 3.50	11957	C	single-sided	365 x .038"	4	none	2 x .140"	.02	6.95	6.25	5.59	4.95
105128	2853PCB	2.00 x 4.40	18913, 11965	C	single-sided	669 x .038"	4	none	4 x .140"	.03	7.95	6.95	6.25	5.59
105110	2300PCB	2.40 x 3.40	11869, 11914	C	single-sided	637 x .038"	4	none	2 x .140"	.03	6.95	6.25	5.59	4.95
28177	PCB1	2.42 x 4.10	18913	C	plated through	674 x .040"	none	none	4 x .120"	.04	4.95	4.49	3.95	3.49
105152	2851PCB	3.10 x 5.50	18892	C	single-sided	1450 x .035"	7	none	4 x .140"	.07	9.95	8.95	7.95	6.95
105136	2320PCB	3.30 x 4.50	11885	C	single-sided	1266 x .035"	4	none	4 x .140"	.06	8.95	7.95	6.95	5.95
105161	2852PCB★	3.60 x 7.00	18905, 11973	B	single-sided	2225 x .035"	4	none	4 x .140"	.10	13.95	12.49	11.25	9.95
105144	2743PCB	4.50 x 4.70	11922	C	single-sided	1869 x .035"	6	none	4 x .120"	.09	9.95	8.95	7.95	6.95
21434	JE401(8001)★	4.50 x 6.50	18868	B/D	single-sided	2360 x .042"	2	none	none	.12	19.95	17.95	15.95	13.95
21451	JE405(8003)★	4.50 x 6.50	18868	C	single-sided	2360 x .042"	1	none	none	.12	19.95	17.95	15.95	13.95
43140	64P44XXXP	4.50 x 6.50	18868	A	drilled only	2860 x .042"	none	none	none	.09	5.95	5.35	4.75	4.49
52943	84P44WE	4.50 x 8.50	18876	A	drilled only	3740 x .042"	none	none	none	.15	8.95	8.49	7.95	6.49
37604	169P44WE	4.50 x 17.0	N/A	A	drilled only	7524 x .042"	none	none	none	.31	15.49	14.95	14.49	13.95
37612	169P44XXXP	4.50 x 17.0	N/A	A	drilled only	7524 x .042"	none	none	none	.25	11.95	10.95	9.95	8.95
105179	2505PCB★	5.00 x 6.50	11893, 18868, 11949	C	single-sided	2829 x .035"	7	none	8 x .120"	.13	13.95	12.49	11.25	9.95
28193	PCB3	5.00 x 8.00	18876	C	plated through	3705 x .042"	4	mounting area-I/O	4 x .120"	.17	23.95	20.95	19.95	17.95
21477	JE407(8006)★	5.00 x 13.25	N/A	B	plated through	6063 x .038"	none	none	8 x .120"	.28	39.95	35.95	32.49	28.95
105187	2507PCB★	6.10 x 8.80	18876	C	single-sided	4771 x .035"	7	none	8 x .140"	.21	24.95	22.49	19.95	17.95
37621	169P84WE	8.50 x 17.0	N/A	A	drilled only	14448 x .042"	none	none	none	.53	22.95	20.49	18.49	16.95

JAMECO & VECTOR ELECTRONIC COMPANY Printed Circuit Prototyping Boards

Printed circuit prototyping boards for virtually any application – including those requiring high component densities and solder or wire wrap connections. All boards are manufactured to precision standards and specifications. All bus and circuit patterns are solder-coated for user convenience.

- Edge contacts: gold • Weight: 0.6 lbs.


21531


28206

Part Number	Product Number	Description	Size (Inches) W x L	Terminal types T44	T49	T421	I/O Connector	Circuit Pattern	Holes Pads	# Holes x Dia.	Power/ Ground Bus	# Mounting Holes x Dia.	Weight (lbs.)	Pricing 1	10	25
21531	JE417	PC/XT 8-bit	4.2 x 6.5	yes	yes	yes	D-sub 9 to 37-pin	C	plated through	2126 x .042"	2	8 x .120"	.12	$24.95	$22.49	$19.95
28206	PCB4	PC/XT/AT 16-bit	4.25 x 13.13	yes	yes	yes	D-sub 9 to 25-pin	C	plated through	4890 x .042"	2	4 x .120"	.23	24.95	22.49	19.95

• See page 105 for circuit board mounting hardware • See page 73 for aluminum round and hex spacers & standoffs

VECTOR ELECTRONIC COMPANY Wire Wrap and Push-In Terminals (for .042" Diameter Holes)

Specifications: • Material: copper alloy • Prebagged 100 pcs.

34147 Push-In Micro-Klip Terminals

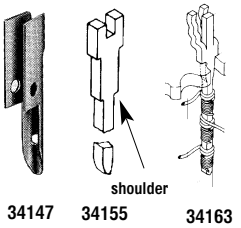
- Overall length: .36" • Post size: .032" x .045"

34155 Miniwrap Wiring Terminals: • Shoulder: .045"

- Two prong with square tail for wire wrapping
- Overall length: .69" • Post size: .025"Sq.

34163 Klipwrap Wiring Terminals: • Shoulder: .045"

- Three prong with square tail for wire wrapping
- Overall length: .83" • Post size: .025"Sq.



34147 34155 34163

Part Number	Product Number	Height Above .062" Board	Length Below .062" Board	Weight (lbs.)	100 pc. units 1	10
34147	T421	.200	.097	.01	$4.95	$4.49
34155	T44	.065	.530	.02	5.95	5.35
34163	T49	.200	.530	.01	12.95	11.49

JAMECO Copper Plated Blank Circuit Boards

Ideal for hobbyists and students doing prototypes of circuits. Copper plating on board for either single sided or double sided boards.

- 1.6mm thickness


Fig. 1 / Fig. 2 / Fig. 3

Part No.	Product No.	Size (L x W)	Fig.	Wt. (lbs.)	1	10	50
Single Side							
169279	PCBS3X6	3.0" x 6.0"	3	0.1	$2.95	$2.49	$1.95
169287	PCBS6X6	6.0" x 6.0"	2	0.2	4.95	4.49	3.95
169295	PCBS12X12	12.0" x 12.0"	1	0.5	12.95	11.49	9.95
Double Side							
169308	PCBD3X6	3.0" x 6.0"	3	0.1	3.95	3.49	2.95
169316	PCBD6X6	6.0" x 6.0"	2	0.2	6.95	6.25	5.59
169324	PCBD12X12	12.0" x 12.0"	1	0.7	17.95	15.95	14.49

3-year manufacturer's warranty

CEBEK Modules

3 Second - 1 Minute Cyclic Timer



By feeding the timer, the relay will be connected immediately during the adjusted running time. Once this time has finished, the relay will remain in stand still until the stop time is completed; restarting, repeating the start and stop process until power supply is disconnected. Start and stop times adjusted through potentiometers.

- Output by relay • Contact rating: 5A @ 200VAC
- Requires power supply: 12V @ 50mA (recommend P/N 100095, pg 87)
- Size: 3.0"L x 1.7"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Description	1	10	25
147846	I-10 timer	$22.95	$19.95	$17.95

1 Second - 3 Minute Timer



By operating a button, the relay will be activated during the adjusted time. The time adjusting will be realized through a potentiometer.

- Output with relay
- Contact rating: 5A @ 200VAC
- Requires power supply: 12V @ 50mA (recommend P/N 100095, pg 87)
- Size: 3.0"L x 1.7"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Description	1	10	25
147871	I-1 timer	$19.95	$17.95	$15.95

1 Second - 3 Minute Delaying Timer

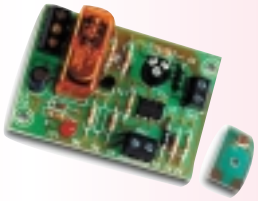


This delaying timer will connect the relay during a time after a preselected waiting time. By retriggering, the relay will remain inactive during the preselected delaying time. Once it is finished, the relay will be activated by connecting the load during working time. Adjust the delaying and working time with a potentiometer for each function.

- Output with relay • Contact rating: 5A @ 200VAC
- Requires power supply: 12V @ 50mA (recommend P/N 100095, pg 87)
- Size: 1.7"L x 3.0"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Description	1	10	25
147854	I-33 timer	$22.95	$19.95	$17.95

Darkness Detector Circuit

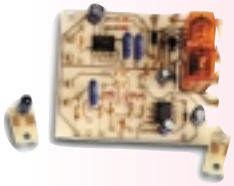


A relay will be activated when the photocell does not receive any light. Adjust sensitivity through potentiometer.

- Relay contacts rated for 5A @ 200VAC
- Requires 12V power supply (recommend P/N 114825, pg 88)
- Size: 2.6"L x 1.8"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Description	1	10
147889	I-42 detector	$19.95	$17.95

Barrier Photocell Circuit

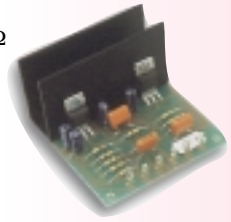


This circuit produces an infrared beam, which when obstructed will automatically connect the load. Used for alarms, object counting, steps detector, etc. Includes emitter and receiver with supports.

- Relay rated: 5A @ 200VAC
- Maximum range 3 meters / output by relay
- Requires power supply: 12V @ 50mA (recommend P/N 100095, pg 87)
- Size: 2.8"L x 2.2"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Description	1	10	25
147811	RJ-1 photocell	$39.95	$35.95	$29.95

20 Watt RMS Mono Power Amplifier



- Input signal: 250mV
- Output impedance: 4-8Ω
- Maximal current consumption: 2A
- Requires power supply: 12V @ 2A (recommend P/N 143714, pg 89)
- Terminals: .100" matching disconnectsolderless terminals
- Size: 2.8"L x 2.8"W x 1.6"H • Weight: 0.23 lbs.

Part No.	Description	1	10
147838	E-11 amplifier	$24.95	$22.49

Electronic Design Templates





136637 136629

- Include symbols, components and center spacing layouts
- Weight: 0.1 lbs.

136637: #9901 template "A" • 1:1 scale

136629: #9903 template "B" • 2:1 scale

Part No.	Description	1	10	25
136637	#9901 template "A"	$5.95	$5.35	$4.79
136629	#9903 template "B"	5.95	5.35	4.79

JAMECO Acid Brush

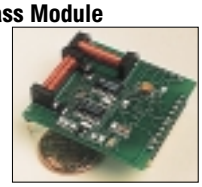


- Used for application of reactive solvents
- Metal handle • Length: 6" • Weight: 0.01 lbs.

Part No.	Description	1	10	100	1000
153322	Acid brush	$.49	$.39	$.29	$.15

Precision Navigation, Inc. Compass Modules

Vector 2X Compass Module



- 2° accuracy, 1° resolution
- 5Hz sampling rate
- Pin selectable BCD or binary output format
- 3-wire serial output format (compatible with Motorola SPI and National Microwire)
- Power supply: single 5 volt • Hard iron calibration
- Raw uncalibrated magnetometer output optional
- Master or slave capability for data clock generation
- Polled or continuous mode options
- Size: 1.5"L x 1.3"W x 0.4"H • Weight: 0.2 lbs.

Part No.	Description	1	10	25
126703	Vector 2X module	$49.95	$44.95	$39.95

Datak Products Photo Etch™ Printed Circuit Kit



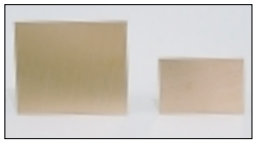
Generate your own 1:1 artwork, then use the patented Fast Neg. film process to make a photo negative, sensitize and expose a blank copper board, then develop and etch it. No darkroom or camera is required. Circuits may also be direct-etched as with the ER1.

- Weight: 4.6 lbs. • Light source not included

*Shipped via UPS ground to continental U.S. only.

Part No.	Product No.	Description	1	10
16731	12-750*	Printed circuit (complete)	$39.95	$36.95

ER1 Direct Etch "Starter" Set



Includes 4 blank circuit boards, dry concentrated ferric chloride etchant, instructions, 8 sheets of direct etch donuts, DIPS, patterns lines, 1/32" & 1/16" etch resist tape.

Part No.	Product No.	Description	Wt. (lbs.)	1	10
70412	ER1	Starter kit	0.7	$10.95	$9.49

ER11 Copper Clad Circuit Boards

One 5" x 6" and one 3" x 4.5" (copper clad one sided) 1/16" phenolic circuit board. • Weight: 0.2 lbs.

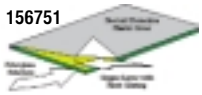
Part No.	Product No.	Description	1	10	25
16707	ER11	Circ. boards	$4.95	$4.49	$3.95

ER3 Dry Concentrated Etchant

- Makes one pint of etch solution • Weight: 0.3 lbs.

Part No.	Product No.	Description	1	10	25
70201	ER3	Dry etchant	$3.95	$3.49	$2.95

Pre-Sensitized Circuit Boards and Developer



156751

- Pre-coated circuit board
- Includes instructions
- Weight: 0.08 lbs.
- Size: 3.0"L x 4.0"W x 1/16"T

Part No.	Description	1	10	25
156751	Single sided	$4.95	$4.49	$3.95
156742	Double sided	5.95	5.35	4.79
156734*	Pos. developer (4 oz.)	6.95	5.95	4.95

Accessories



16758



16723



70261

Part Number	Product Number	Description	Wt. (lbs.)	1	10
16758	ER8*	Negative acting resist developer, 16 oz.	1.2	$6.95	$5.95
16723	ER18	TINNIT™, 1 pint	0.2	6.95	5.95
70261	ER71*	Negative-acting photo resist liquid, 4 oz.	0.5	8.95	7.95
70480	ER181	TINNIT™, 1/2 gallon size (bulk pack)	0.6	15.95	14.49

*Shipped via UPS ground to continental U.S. only

3-Channel Light Organ ■



- Each channel reacts to a different part of the sound spectrum and can be adjusted to react to a different frequency range
- Line or microphone input
- Maximum load 2A per channel
- Space for optional noise filters
- Each output has individual sensitivity control
- Complete housing and AC power connectors
- Dimensions: 6.7"W x 5.6"D x 1.7"H • Weight: 1.2 lbs.

80 pc. Kit

Part No.	Description	1	10
131684	K5202 3-ch sound light	$54.95	$49.95

Universal Mono Pre-Amplifier ■



For audio applications where there is insufficient input signal. Use as a microphone pre-amplifier or for level correction.

- Requires power supply: 10-30VDC/10mA (P/N 20626, pg 113)
- Output impedance: 1kΩ
- Frequency range: 20Hz - 20kHz +/-3dB
- Adjustable output level • Max. input signal: 40mV
- PCB dimensions: 1.2"L x 1.8"W • Weight: 0.3 lbs.

17 pc. Kit

Part No.	Description	1	10	25
117612	K1803 pre-amplifier	$8.95	$7.95	$7.25

FM Oscillator ■



Mini FM transmitter (100-108MHz) is ideal for family broadcasts, baby monitors and security. May be received by any portable FM radio or tuner. Connects to any type of microphone.

- Integrated pre-amplifier (sensitivity 5mV)
- Requires power supply: 9-12VDC (P/N 20626 or equivalent, pg 113)
- PCB dimensions: 1.8"L x 2.8"W • Weight: 0.3 lbs.

26 pc. Kit

Part No.	Description	1	10	25
117604	K1771 FM oscillator	$9.95	$8.95	$7.95

1 Amp Power Supply ■



Provides a regulated voltage adjustable between 1.2 and 35 volts at 1 amp. LM317 regulator gives you remarkably better ripple and regulation characteristics than conventional regulators. Chip includes current limiter and thermal overload protection. Supplied without cooling and power transformer.

- Output current max.: 1.5A
- Requires quick connect power transformer: 25.2VCT @ 2A (P/N 102103 or equivalent, pg 83)
- Max. dissipation: 15W (cooled)
- Max. input voltage: 40V
- PCB dimensions: 2.1"L x 2.1"W • Weight: 0.3 lbs.

12 pc. Kit

Part No.	Description	1	10	25
117621	K1823 power supply	$12.95	$11.49	$9.95

Sound Generator Kit ■



- Produces 10 different sounds with speed adjustable: guns, sirens, car engines, explosions, tunes, screeching tires, phaser guns
- Push-button keyboard
- Requires 9V battery (recommend P/N 151095 – pg 74)
- Requires 8 ohm/1 watt speaker (P/N 102031 or equivalent, pg 66 – not included)
- PCB dimensions: 2.8"L x 2.8"W • Weight: 0.4 lbs.

61 pc. Kit

Part No.	Description	1	10
127562	K4401 10 sound generator	$29.95	$25.95

Supermini 2.5W Audio Power Amplifier ■



This circuit has incredibly tiny dimensions. The IC has a pre- and power amplifier, which can be used separately by cutting a jumper.

- Requires 4.5-15VDC @ 400mA power supply (recommend P/N 114825 – pg 88)
- Operating frequency: 60Hz to 15kHz
- Max. output power: 2.5W (4Ω, 12V)
- Short circuit/thermal overload protection
- Dimensions: 1.7"L x 1.3"W x 1.1"H • Weight: 0.3 lbs.

27 pc. Kit

Part No.	Description	1	10	25
127175	K2637 power amp.	$9.95	$8.95	$7.95

7W Mono Amplifier Kit ■



- Music output power: 7W/4Ω
- RMS output: 3.5W/4Ω & 2W/8Ω
- Harmonic distortion: 0.05% (1W/1kHz)
- Frequency response: 20 to 20kHz (-3dB)
- Short circuit/overload protection • Requires speakers
- Requires 15VDC (8-18VDC) @ 500mA power supply (recommended P/N 155803, pg 88)
- PCB board size: 2.2"L x 1.4"W • Weight: 0.3 lbs.

22 pc. Kit

Part No.	Description	1	10	25
127255	K4001 amplifier kit	$12.95	$11.49	$9.95

Electronic Record / Playback Module ▲



- Digitally record and play up to 5 voice messages
- Automatic playback feature
- 12 to 20 seconds per module (can cascade modules)
- Requires loudspeaker output: 8Ω (recommend P/N 102031, pg 66)
- Messages recorded to nonvolatile voice chip
- Requires 9-12VAC transformer or (4) AA batteries (recommend P/N 100061, pg 86 or 151087, pg 74)
- PCB dimensions: 4.8"L x 3.8"W • Weight: 0.5 lbs.

114 pc. Kit

Part No.	Description	1	10
127571	K4400 electronic module	$49.95	$44.95

AM/FM Antenna Amplifier ■



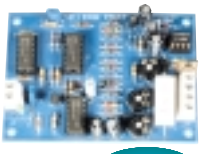
Easy to assemble, this amplifier may make the difference in your reception quality, especially in your car or in areas with any deflection due to terrain and buildings.

- Supply voltage: 12-15VDC @ 1-3mA
- Gain 22dB (10MHz to 150MHz)
- Includes metal casing to store amp • Weight: 0.4 lbs.
- Assembled size: 3.4"L x 1.4"W x 1.0"H

23 pc. Kit

Part No.	Description	1	10
129146	K2622 antenna amp.	$14.95	$13.49

Slow On/Slow Off Dimmer ▲



- Excellent device to control lighting in places such as garages, stairways, porches, etc.
- 2 mode operation: dim slowly (2 sec. to 1 hour) and timer/dimmer (independent adjustment 1 sec. to 30 min.)
- Voltage inputs: 110-125 or 220-240V, 50 or 60Hz for external power use (2) P/N 112723 (pg 66)
- Maximum load: 2A
- PCB dimensions: 3.7"L x 2.7"W • Weight: 0.4 lbs.

81 pc. Kit

Part No.	Description	1	10
127589	K2657 slw on/slw off dimmer	$22.95	$19.95

Dual 30 Watt Power Amplifier ■



- Dual 30W/4Ω
- Channel separation: 70dB
- RMS output: dual 15W @ 4Ω or dual 10W @ 8Ω
- Frequency bandwidth: 7Hz to 60kHz (-3dB)
- Supply voltage: 24VCT @ 2A (50W transformers), recommend P/N 101864 (pg 83)
- Size: 2.8"L x 2.0"W • Weight: 0.6 lbs.

38 pc. Kit

Part No.	Description	1	10	25
129138	K4003 amplifier kit.	$29.95	$26.95	$24.49

Pink Noise Generator ■

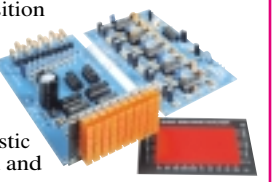


- Use to analyze the acoustic properties of a room
- 33-bit shift register
- Clock frequency from 30kHz and 100kHz
- Output voltage: 150mV RMS @ 40kHz
- Pink noise filter: -3dB per octave
- Can be used with P/N 129171 (below)
- Requires 9-12VAC or 12-15VDC @ 5mA transformer (recommend P/N 100061, pg 86 or 129314, pg 88)
- PCB size: 2.8"L x 1.6"W • Weight: 0.4 lbs.

34 pc. Kit

Part No.	Description	1	10
131705	K4301 generator	$14.95	$13.49

Audio Spectrum Analyzer ▲



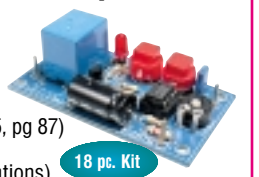
Visualize the composition of audio signals. You can use a microphone and a pink noise generator (above) to adjust the equalizer to the acoustic behavior of the room and your speakers.

- Ten frequency bands 32 to 16kHz
- Requires 2 x 9VAC, 18VCT transformer (P/N 105531, pg 83) or 12-15VDC @ 1A (P/N 161533, pg 88)
- PCB board size: 5.8"L x 3.2"W • Weight: 1.0 lb.

381 pc. Kit

Part No.	Description	1	10
129171	K4300 spectrum analyzer	$99.95	$89.95

Universal Start and Stop Timer ■

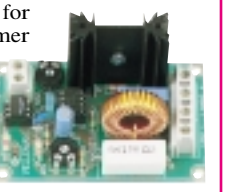


- Timer for applications requiring a delay up to 60 minutes
- Power requirements: 12VDC @ 55mA (recommend P/N 100095, pg 87)
- Time interval adjustable 0-15 min. (w/o modifications)
- PCB dimensions: 1.5"L x 2.7"W • Weight: 0.4 lbs.

18 pc. Kit

Part No.	Description	1	10	25
120619	K2579 timer	$12.95	$11.49	$10.49

DC Controlled Dimmer ▲



This handy circuit is ideal for replacing an existing dimmer switch; and can be used in a control application via P/N 128928 interface board (pg 110).

- Supply voltage: 110V or 220-240V, 50 or 60Hz
- Can be used for 24VAC
- DC control voltage: 0-10VDC
- Maximum control current: 2.25mA @ 12V
- PCB size: 3.0"L x 2.0"W x 1.8"H • Weight: 0.4 lbs.

37 pc. Kit

Part No.	Description	1	10	25
128901	K8003 DC dimmer	$21.95	$19.95	$17.95

Universal Battery Charger/Discharger ■

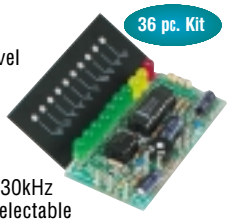


85 pc. Kit

- Charges current from 15mA to 750mA selectable
- Charges both Ni-MH and Ni-Cad batteries
- Usable battery voltage: 1.2/2.8/3.6/4.8/6.0/7.2/8.4/9.6 volts
- Quick charge in 52 min.
- Normal charge in 14 hrs.
- Automatic discharge and charge cycle
- Requires 15VDC / 800mA transformer (P/N 163782, pg 88) • Size: 3.13"Sq. (PCB) • Weight: 0.5 lbs.

Part No.	Description	1	10
147598	K7300 bat. charger	$21.95	$19.95

10 LED Mono VU Meter Kit ■



36 pc. Kit

- Instant visualization of audio signal levels
- Easy hook up to a LINE level (LOW input) signal source
- Special input (HIGH input) is provided, which allows direct connection to a speaker output
- Frequency range: 20Hz to 30kHz
- Dot or bar display mode selectable
- Power supply: 15VDC @ 300mA max. (P/N 153779, pg 88)
- Size: 2.7"L x 1.4"H (PCB) • Weight: 0.3 lbs.

Part No.	Description	1	10
147643	K4304 VU meter	$17.95	$15.95

Flashing LED Sweetheart ■

This kit shows a beating heart. Great for decorations!



46 pc. Kit

- Operating voltage: 8 to 15VDC (P/N 100095, pg 87)
- Power consumption: 8mA
- Size: 2.5"L x 2.4"W x 1.2"H • Wt.: 0.1 lbs.

Part No.	Description	1	10	25
147555	MK101 mini kit	$11.95	$10.95	$9.95

Flashing LED Kit ■

For applications such as model constructions. Adjustable flashing speed by potentiometers.



14 pc. Kit

- Operating voltage: 9VDC (P/N 151095, pg 74)
- Minimum consumption: 4mA
- 5.5" wire w/ 9V battery connector
- Size: 1.3"L x 1.4"W x 0.6"H • Weight: 0.1 lbs.

Part No.	Description	1	10	25
147580	MK102 mini kit	$6.95	$5.95	$5.35

Voice Activated Kit ■

Uses sound to activate the flashing of 4 bright LEDs.



33 pc. Kit

- Adjustable sensitivity
- Operating voltage: 8-15VDC (P/N 109153 or 151095 (pg 74)
- Minimum consumption: 0.5mA / 12mA max.
- Size: 2.5"L x 1.6"W x 1.4"H • Weight: 0.1 lbs.

Part No.	Description	1	10	25
147571	MK103 mini kit	$9.95	$8.95	$7.49

Electronic Cricket Kit ■

Sounds like a cricket when it gets dark!

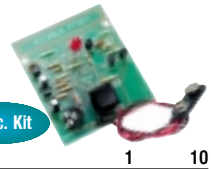


26 pc. Kit

- Operating voltage: 8-15VDC (P/N 109153 or 151095 (pg 74)
- Adjustable cricket effect, tone and light sensitivity
- Minimum consumption: 9V / 5mA
- Size: 2.5"L x 1.7"W x 1.6"H • Weight: 0.1 lbs.

Part No.	Description	1	10	25
147547	MK104 mini kit	$14.95	$13.49	$11.95

Live Wire Detector ●



33 pc. Kit

- Determine if a wire is live, detect wire within walls and terminating points
- Requires 9V battery (P/N 151095, pg 74)
- Weight: 0.3 lbs.

Part No.	Description	1	10
131692	K7101 wire detector	$11.95	$10.95

DC to Pulse Width Modulator ▲

The circuit converts a DC voltage into a series of pulses, such that the pulse duration is directly proportional to the value of the DC voltage.

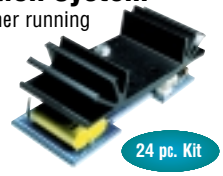


40 pc. Kit

- PWM range: 0 to 100%
- PWM frequency: 100Hz to 5kHz (adjustable)
- Operating voltage: 8 to 35VDC
- Minimum consumption: 35mA
- Maximum output current: 6.5A
- Efficiency: better than 90% at full load
- Adjustable sensitivity: 2.5 to 35VDC
- Size: 3.3"L x 1.9"W x 1.8"H • Weight: 0.5 lbs.

Part No.	Description	1	10	25
120539	K8004 modulator	$19.95	$17.95	$15.95

Electronic Ignition System ■



24 pc. Kit

- Better starting and smoother running
- Lower fuel consumption
- Less pollution
- Lower servicing costs
- PCB dimensions: 2.8"L x 1.4"W
- Weight: 0.4 lbs.

Part No.	Description	1-9	10-24
120601	K2543 Ignition system	$16.95	$14.95

Metronome Kit ●



27 pc. Kit

- Incorporated speaker
- LED beat indication
- Adjustable volume, beats/min., sound
- On/off switch on board
- Requires 9V battery (P/N 151095, pg 74)
- Size (PCB): 2.4"L x 1.6"W • Weight: 0.1 lbs.

Part No.	Description	1	10
157331	MK106 metronome kit	$16.95	$14.95

Water Alarm Kit ●



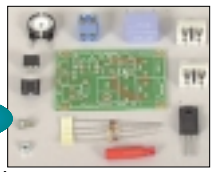
7 pc. Kit

- Gives an alarm sound when water is detected
- Incorporated alarm buzzer
- Water sensor can be placed at a distance by cutting the board and using wires for connection
- Requires 9V battery (P/N 151095, pg 74)
- Size (PCB): 2.8"L x 1.8"W • Weight: 0.1 lbs.

Part No.	Description	1	10
157315	MK108 water alarm kit	$9.95	$8.95

Single Channel Light Organ Kit ■

Control 120VAC @ 1 Amp

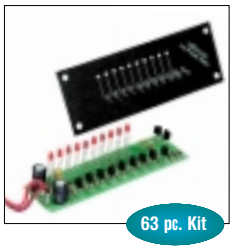


16 pc. Kit

- Modulates a lamp according to the music signal at the input
- Optical isolated loudspeaker input
- Adjustable sensitivity
- Input sensitivity: 2W to 60W
- Max. load: 120W @ 120VAC; 230W @ 240VAC
- Board size: 2.4"L x 1.6"W • Weight: 0.1 lbs.

Part No.	Description	1	10
169025	MK110 light organ kit	$12.95	$11.49

LED Audio Power Meter Kit ■



63 pc. Kit

- 10 x LED scale up to 2000Wrms power measurement
- No power supply needed, directly driven from loudspeaker output
- Scale @ 4Ω load in low power mode (0.3-400W), in high power mode (10-2000W)
- Scale @ 8Ω load in low power (0.15-200W), in high power mode (5-1000W)
- Min. input sensitivity: 1.1 Vrms (low power mode)
- Max. input voltage: 130Vpeak (high power mode)
- Current consumption: 25mA at full scale
- Luminous instensity: 8-20 mcd/led
- PCB dimensions: 4.0"L x 1.1"W • Weight: 0.4 lbs.

Part No.	Description	1	10
155897	K4307 power meter	$22.95	$19.95

Light Computer Kit ▲



122 pc. Kit

- 16 programs and 7 outputs turn this kit into a unique light producer for entertainment and display applications
- Supply voltage for lamps: 24VAC to 240VAC
- Circuit supply voltage: 7.5-9VAC/250mA (recommend P/N 100061, pg 86)
- PCB dimensions: 5.4"L x 3.1"W • Weight: 0.6 lbs.

Part No.	Description	1	10
127600	K5201 computer kit	$39.95	$34.95

Easy Mini Kit Starter Pack ●

Two Project Kits Plus Tools



This easy starter pack is perfect for students and hobbyists who will learn electronics and assembly first hand. Includes LED sound to light unit (MK103), flashing LED kit (MK102), diagonal cutter, 30W soldering iron, solder & soldering stand.

- Soldering iron UL/CUL listed
- Includes kit instructions and how to solder instructions with useful soldering hints • Wt.: 1.4 lbs.

Part No.	Description	1	10
169199	K/STARTU starter pack	$27.95	$24.95

"Wow! What a great place to shop. Your website is wonderful. You shipped the same day. You have great prices. I tracked the package daily as it crossed the continent. No backorders! The most energy required to shop with you was to go to the door and pick it up!"

— Ron Gavin
Soso, Mississippi

Computer Interface Board ▲



301 pc. Kit

Connects to the printer port of a computer without interruption of the printer at the existing port. Works well in control applications such as the DC dimmer (P/N 128901 – pg 108) and infrared tran./rec. P/Ns 120555 and 120547 (below).

- 16 I/Os with opto coupler
- Analog outputs: (8) 6-bit (64 steps), (1) 8-bit (256 steps)
- Analog inputs: (4) 8-bit (256 steps)
- Full opto-isolation with computer
- 3.5" driver disk w/ routines in C++, QBASIC, Turbo Pascal • Requires DB25 cable P/N 65787 (pg 174)
- PCB size: 9.3"L x 5.3"W • Weight: 1.7 lbs.

Part No.	Description	1	10
128928	K8000 interface board	$139.95	$124.95

Universal Relay Card ▲



64 pc. Kit

Shown with 16 relays, only 8 relays included

An electronic controller that switches higher currents while providing insulation between the controller and the controlled devices.

- Relay contact: 5A/220V
- Output voltage: 12VDC/250mA
- Power supply: 220V or 125VAC/12VAC • Weight: 1.8 lbs
- PCB size: 8.3"L x 5.9"W

Part No.	Description	1	10
128910	K6714 universal relay card	$59.95	$53.95
144186	VR15M121C relay (JZC-22F)	2.95	2.49

Liquid Level Controller ▲



73 pc. Kit

You can control the level of any container of liquid, also replace the liquid sensors with temperature or light sensors and use accordingly. There are relay switches to separate circuits that can maintain fluid between low and high levels.

- Supply voltage: 12-14VAC @ 300mA min., recommend transformer P/N 10081 (pg 86)
- Alarm signal provided for desired applications
- PCB size: 4.1"L x 2.4"W x 1.0"H • Weight: 0.5 lbs.

Part No.	Description	1	10
129154	K2639 level controller	$21.95	$19.95

Metal Detector ■

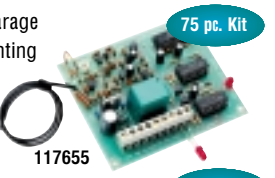


22 pc. Kit

- Proximity range adjustable to 8cm
- Requires 9V battery (recommend P/N 151095 – pg 74)
- LED indicator, can use a buzzer as an option (P/N 105822 – pg 65)
- Weight: 0.4 lbs.

Part No.	Description	1	10	25
129091	K7102 detector	$10.95	$9.95	$8.95

Infrared and RF Code Lock Transmitters and Receivers ■ ▲



75 pc. Kit

117655



16 pc. Kit

134543

29 pc. Kit

117647

66 pc. Kit

134551

- Use for car alarms, garage doors, door locks, lighting control, etc.
- Over 8000 selectable codes
- Use several transmitters with one receiver
- Transmitters require 12V battery type V23G
- Receivers feature relay output 10A change-over or pulse contact and require 12-16VDC @ 100mA (recommend P/N 100095 pg 87)
- Weight: 0.3 lbs. (transmitters) 0.5 lbs. (receivers)

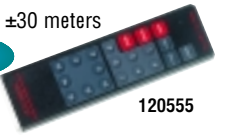
	117647/173235	117655	134543/134551
Transmission	RF	RF	IR
Channels	2-ch	1-ch	1-ch
Range	100'	100'	23'
Asmb. difficulty	expert	expert	novice

Part No.	Description	1	10
117647	K6706 2-ch transmitter (RF)	$16.95	$14.95
173235	K6727 2-ch receiver (RF)	39.95	35.95
117655	K6706A 1-ch receiver (RF)	27.95	24.95
134543	K6708 1-ch transmitter (IR)	13.95	12.49
134551	K6709 1-ch receiver (IR)	29.95	26.95

15-Channel Infrared Transmitter and Receiver ■

- 15 independent channels
- Transmitter/receiver range: ±30 meters

120555:



37 pc. Kit

120555

- Supply voltage: 9V battery
- Weight: 0.8 lbs.

120547:



120547

76 pc. Kit

- Each output can be a change-over or pulse contact switch
- Power requirements: 8-14VDC (recommend P/N 100095 – pg 87 or 129314 – pg 88)
- PCB dimensions: 2.8"L x 5.7"W • Weight: 0.5 lbs.

Part No.	Description	1	10
120555	K6710 infrared transmitter	$59.95	$53.95
120547	K6711 infrared receiver	44.95	39.95

Remote Control by Telephone ▲



116 pc. Kit

- Possible to turn on or off up to three devices
- Check conditions of a switch (open or closed)
- Turn lights on and off from a touch tone telephone
- Check home/office alarm system
- Turn heat on before arriving home
- Protected by a user-defined code
- Pick up after 3 or 8 rings (selectable) • Supply volt.: 12VAC @ 300mA (recommend P/N 101258 – pg 86)
- Relay included for one output (10A/250VAC)
- PCB dimensions: 4.1"L x 5.1"W • Weight: 0.7 lbs.
- Case sold separately

Part No.	Description	1	10
120678	K6501 remote control	$59.95	$53.95

Parking Radar ■



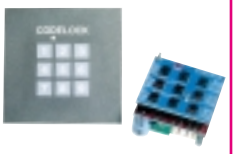
55 pc. Kit

This kit uses a sensor circuit board which is mounted to the back of the car, and a "base" to operate. Parking in tight places can be difficult, but the unit can tell you when you have come within the preset distance you set of the object behind you.

- Detection range: 5cm - 1.5m, adjustable angle: 5°
- Transmitter frequency: 40kHz
- Power supply: 10-15VDC @ 16mA max or auto power plug (P/N 115001 – pg 74)
- PCB size: base (4.9"L x 1.9"W) sensor (3.8"L x 1.1"W)
- Weight: 0.5 lbs.

Part No.	Description	1	10	25
129120	K3502 parking radar	$44.95	$39.95	$34.95

Code Lock Kit ■



67 pc. Kit

- Switch an alarm on and off or open door locks
- 3000+ codes possible
- LED indicates state
- Relay contact rating: 5A/220V
- Pulse or switch outputs
- PCB dimensions: 1.7"L x 1.8"W
- Weight: 0.5 lbs.

Part No.	Description	1	10
127554	K6400 code lock kit	$29.95	$26.95

Electronic Watchdog Kit ■



104 pc. Kit

- Choice of 2 different dogs
- Realistic simulation through random generator
- Reacts to environmental noise with adjustable sensitivity • Can connect to other trigger detectors
- PCB dimensions: 5.6"L x 2.9"W • Weight: 0.5 lbs.

Part No.	Description	1	10
127597	K2655 electronic watchdog	$34.95	$31.49

Stroboscope ▲



19 pc. Kit

Make your own snapshots and "lightning" light effects. Flash frequency adjustable from 2 - 20Hz.

- Input: 110VAC
- Weight: 0.4 lbs.
- PCB dimensions: 3.5"L x 2.6"W

Part No.	Description	1	10
117639	K5300 stroboscope	$17.95	$15.95

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www.jameco.com

JAMECO Temperature Genie Kit ●



19 pc. Kit

Ever had precious plants freeze on a sun porch when the outside temperature suddenly dropped? With this kit you can build it to sound an alarm when the temperature reaches a critical point or connect to a relay to activate any type of small heater. This gives you 100mA of output.

- Temperature range: -30˚to 250˚F
- Power requirement: 6 to 15VDC
- Size: 2"L x 1.4"W

Part No.	Product No.	Description	1	10
177105	TC-2	Temp. genie	$7.95	$6.95

JAMECO Infrared Transmitter and Receiver Kit ●



26 pc. Kit

This kit transmits a 40KHz modulated I-R signal to a distance of 6' to 8'. Place the transmitter on one side of a door way and the receiver on the other and see if an object passes through. Can be used as a remote switch to turn objects OFF and ON by infrared. The IR receiver will only receive 40KHz modulated infrared light. You can configure the output for normally ON or normally OFF operation. This allows you to use it as a security sensor or as a remote control switch. You can use the receiver to test TV or VCR remote controls.

- Power requirement: 6 to 15VDC
- Includes (1) transmitter and (1) receiver
- Transmitter size: 1.0"L x 0.8"W
- Receiver size: 1.4"L x 1.2"W

Part No.	Product No.	Description	1	10
177092	IR-2	Trans./receiver	$22.95	$20.95

JAMECO Power Supply Kit ●

With AC Wall Transformer



24 pc. Kit

The EBPS-4 will supply DC voltage of the proper magnitude and type for P/Ns 177041, 177076, 177084 (right). It supplies tightly regulated and filtered +5VDC, as well as variable output from +6 to +10VDC. This power supply delivers up to 300mA, and features internal thermal overload protection, as well as internal short circuit limit.

- Includes 12VDC @ 300mA wall transformer with 2.1mm x 5.5mm center positive connector
- Size: 2.3"L x 2.8"W

Part No.	Product No.	Description	1	10
177050	EBPS-4	Power supply	$17.95	$15.95

JAMECO Logic Probe Kit ●



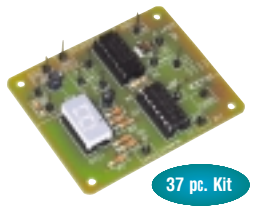
14 pc. Kit

Digital logic: the heart of today's technological revolution. Yet, digital signals are either "on" or "off", and you need an easy way to monitor them. Enter the EBLOG-300, a simple piece of test equipment that comes in very handy. Logic probes test digital circuits at various points, and show whether that point is high, low or constantly changing. They help you understand and troubleshoot logic gates, timers, clocks, counters, prescalers, and other digital circuits you might come across. The logic probe is powered by the circuit under test.

- Size: 4.0"L x .75"W

Part No.	Product No.	Description	1	10
181868	EBLOG-300	Logic probe	$9.95	$8.95

JAMECO Counter Display Kit ●



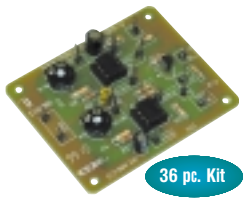
37 pc. Kit

How do you count and display pulse? The EBDC-7 shows how a digital display operates in digital clocks, frequency counters, tachometers, or general purpose counters. Learn the secrets of 7-segment LED displays. Based on the CD4518 dual BCD up counter (for use in many different counting and frequency-dividing applications) and the Motorola MC14543 BCD-to-7-segment latch/decoder/driver for LCD and LED displays. Possible applications include instrument counters, digital voltmeters, calculator cockpit display, and various clock, cockpit display and various clock, stopwatch, and timer uses, limited only by your imagination.

- Power requirement: 5VDC (recommend P/N 177050 – left)
- Size: 2.3"L x 2.8"W

Part No.	Product No.	Description	1	10
177041	EBCD-7	Counter display	$14.95	$12.95

JAMECO Timer Debounce Kit ●



36 pc. Kit

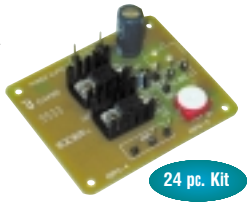
Based on the LM555 timer chip, a highly stable device for generating accurate time delays or oscillation. When aswitch is turned on or off, mechanical bounce noise generates spurious pulses. When operated in monostable mode, the EBTD-9 prevents these noise pulses from adversely affecting your project. Use this circuit to set clocks or counters – any time you need a push-button switch. Or, run the kit in astable mode and learn how clock/timer oscillator circuits work. Use this circuit to clock other projects.

- Power requirement: 5VDC (recommend P/N 177050 – left)
- Size: 2.3"L x 2.8"W

Part No.	Product No.	Description	1	10
177076	EBTD-9	Timer debounce	$12.95	$10.95

JAMECO Power Supply Kit ●

For Battery Operation



24 pc. Kit

This kit will allow you to operate your project with a +12VDC battery. Perfect for automotive or robotic applications. This power supply allows up to 1.0A load current with the heat sinking provided (battery used will determine actual allowable current.) Current limiting is included to limit the peak output current to a safe value, and a thermal shutdown circuit prevents the regulator from overheating. Provides +5VDC fixed and +6 to +9.5VDC variable output, well-regulated and filtered.

- Power requirement: 12 to 18VDC (recommend P/N 177050 – left)
- Size: 2.3"L x 2.8"W

Part No.	Product No.	Description	1	10
177068	EBPS-5	Power supply	$12.95	$10.95

JAMECO Touch Switch Kit ●



28 pc. Kit

Learn how modem switching technology fits into your projects. Do away with noisy mechanical switches that wear out. Lightly put pressure on the EBTS-10 touch switch and the (lights, CD player, appliances) come on. Touch the switch again, and it goes off. Based on the LM555 timer running in monostable (timing) mode, as well as the CD4518 dual BCD up counter (used as a flip-flop), this kit includes a relay driver transistor and a DPDT relay whose contacts are rated at 1.5A. You can switch a 300W appliance with the EBTS-10.

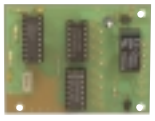
- Power requirement: 5VDC (recommend P/N 177050 – left)
- Size: 2.3"L x 2.8"W

Part No.	Product No.	Description	1	10
177084	EBTS-10	Touch switch	$12.95	$10.95

JAMECO Sweet 16 Tone Decoder Kit ■

Operates great through phone lines, radios or scanners

Provides a design platform you can use your imagination to build on



19 pc. Kit

The Sweet 16 Tone Decoder detects dual tone multi-frequency (DTMF) data (those sounds you hear when pushing buttons on your phone), and when each individual button is pressed it sends a unique voltage to the electronics on the printed circuit board which activates a circuit on or off. There are 16 different touch tones, 12 of which are on a normal phone; special key pads have 4 additional buttons (A, B, C, D). This decoder gives an output voltage for all 16 touch tones. The printed circuit board has one relay and driver circuit. Any one output may be connected to the onboard relay circuit.

- Size: 2.8"L x 2.2"W

Part No.	Product No.	Description	1	10
181876	TT-16	Tone Decoder	$34.95	$31.95

JAMECO PIC Relay Controller Kit ■

This is a good companion for any kit that needs additional amperage or micro-controlled relay function



22 pc. Kit

- Preset relay functions: on/off toggle mode, on/reset mode, fixed delay .5 second pulse stretch, fixed delay 10 second pulse stretch, variable time 1.5 to 14 seconds, variable time 11 to 24 seconds, 3 amp total output, and input and reset signal can be active hi or low
- Includes wall transformer (7.5-15VDC)
- PCB size: 2.7"L x 1.8"W

Part No.	Product No.	Description	1	10
181850	PRC-1	Relay controller	$24.95	$22.49

JAMECO DC Voltage Monitor Kit ●



46 pc. Kit

If battery status is important, you need this kit. It uses 7 LEDs to monitor 12VDC in 1V, 1/2V, or 1/4V steps. Monitor 8V or 5V in 1/4V steps. Great for boats, motor homes, model planes or race car ni-cads. All parts and instructions are included.

- Size: 2.7"L x 1.3"W

Part No.	Product No.	Description	1	10
181833	VM-1	Voltage monitor	$7.95	$6.95

KIT ASSEMBLY DIFFICULTY LEVEL: ● = Beginner ■ = Intermediate ▲ = Expert

OWI Electronic Kits

Hyper Peppy Beginner ● /Advanced Kits ▲



Easy to build and assemble with basic hand tools. This peppy little guy is a fast and zippy robot who will reverse himself and resume a different course when he comes in contact with an obstacle or detects a loud sound.

- Easy to assemble mechanical drive system
- Size: 12.0"L x 7.0"W x 3.5"H • Weight: 0.9 lbs.

140863: Pre-assembled printed circuit board
145496: Soldering required

Part No.	Description	1	10
140863	Hyper Peppy beginner kit	$23.95	$21.49
145496	Hyper Peppy advanced kit	23.95	21.49

Soccer Robot Beginner Kit ●

Buy two for tournament play!



Allows you to build this interactive robot with simple hand tools. Soccer robot has 6 operational kicking mechanisms. It runs forward, backward, turns left or right and executes 360 degree turns.

- Hardware for building the kit • Control box and ball
- Size: 12.0"L x 7.0"W x 3.5"H • Weight: 1.1 lbs.

Part No.	Description	1	10
140871	Soccer robot beginner kit..	$33.95	$29.95

Spider Advanced Kit ▲



A robot that moves about avoiding obstacles by infrared ray sensing system. The infrared ray sensing system, composed of infrared ray emitter and infrared ray receiver, finds obstacles to go around and changes its direction.

- Infrared sensor including infrared diode/photo diode/IC
- 2 DC motors • Hardware for building the kit
- Size: 12.0"L x 7.0"W x 3.5"H • Weight: 1.2 lbs.

Part No.	Description	1	10
140821	Spider advanced kit	$59.95	$53.95

Line Tracker Advanced Kit ▲



A robot that follows a black line on white paper with the use of a photo-interrupter which projects and receives infrared rays. While black absorbs infrared rays, white reflects them.

- Infrared sensor including infrared diode/photo diode/transistors/IC • 2 DC motors
- Hardware for building the kit
- Size: 12.0"L x 7.0"W x 3.5"H • Weight: 1.1 lbs.

Part No.	Description	1	10
140839	Line tracker advanced kit....	$59.95	$53.95

Triple Action Solar Car Kit ●



An exciting way to use alternative power.

- Aerodynamic sports car shell can be painted or left clear to view mechanics
- 4-wheel chasis
- Multispeed transmission
- Powerful 1.4 volt/ 350mA solar cell
- Parts are removable to create other projects
- Two-way power source for solar or battery power (1 AA battery, not included) • Weight: 0.7 lbs.

Part No.	Description	1	10
147774	Triple action solar car	$39.95	$35.95

OWI Electronic Kits

Programmable Movement Robot Kit ▲



149702

This robot uses two sensors, wheels and a 4-bit microcomputer to execute movement programs input via its 26-key control panel. Communication with a computer is also possible with an optional interface card.

- 2 DC motors and hardware for building kit
- Requires 3 AA or one 9V battery (P/N 151087 (3) or 151095, pg 74)
- Size: 5"Dia. (at base) x 2.8"H • One-year warranty

Part No.	Description	Wt. (lbs.)	1	10
149702	Robot kit	1.0.....	$69.95	$62.95
149711	Interface kit	0.2.....	29.95	25.95

One Touch Selectable Gear Box Kit ■



- One touch slide switch with 6 gear ratio possibilities: 6.8:1 to 807.93:1
- Assembly required
- Weight: 0.3 lbs.
- Size: 2.5"L x 1.1"W x 1.5"H

Part No.	Description	1	10
145509	Gear box kit	$14.95	$13.49

Ultrasonic Motion Detector Kit ■



- 2 boards: one with matched pair of ultrasonic transducers to detect motion from 4-7m away; 2nd board contains crystal controlled oscillator and all circuits

49 pc. Kit

- Switchable latch, red LED indicator
- Solder pad output to drive external relay or circuits
- Requires 9V battery (P/N 151095, pg 74)
- Size: main board: 2.8"L x 2.0"W x 0.8"H
  transducer board: 2.8"L x 0.6"W x 0.9"H
- Weight: 0.1 lbs. for both boards

Part No.	Description	1	10
125090	Ultrasonic alarm kit	$29.95	$26.95

Unipolar Stepper Motor Driver Kit ■



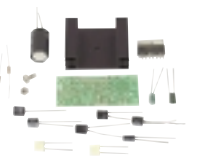
- Will drive unipolar stepper motors rated at 6-30VDC @ 1.25A (or less)
- Drives 5, 6 or 8 lead unipolar stepper motors
- 5VDC regulator stabilizes power to the 555 clock IC

29 pc. Kit

- Size: 2.6"L x 1.9"W x 1.0"H • Weight: 0.1 lbs.

Part No.	Description	1	10
139109	Stepper motor kit	$29.95	$26.95

17.5 Watt Bridged Amplifier Kit ●

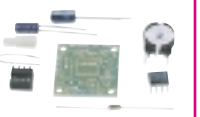


- Based on the Hitachi HA13118 dual amplifier IC
- Drives 3-8 ohm speakers (2 required for stereo)
- Requires 12VDC supply (P/N 100095, pg 87)
- Weight: 0.1 lbs.

17 pc. Kit

Part No.	Description	1	10
136207	17.5W mono amplifier.....	$16.95	$14.95

1 Watt Amplifier Kit ■



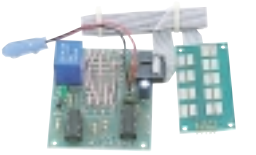
- Circuit designed around a single TDA7052 IC
- Ideal part for larger projects
- Drives 8Ω speaker (not included)
- Ideal for battery powered circuits, operates on 3-15VDC solder pads for all connections • Weight: .04 lbs.

9 pc. Kit

- Battery and battery snap not included (P/N 151095 and 109153, pg 74) • Size: 1.3"L x 1.1"W x 0.9"H

Part No.	Description	1	10	25
125111	1 watt amp kit	$6.95	$5.95	$5.59

Combination Lock Kit ■



- 2 boards: one with 1-9 touch pads and connected to 2nd board by 3 ft. cable; 2nd board has decoding ICs, matrix to set 4 number code, and relay to control external loads

26 pc. Kit

- Requires 9V battery (P/N 151095, pg 74)
- Size: 3.0"L x 2.5"W x 1.0"H
- Weight: 0.2 lbs. for both boards

Part No.	Description	1	10
125129	Combination lock.....	$12.95	$11.49

D.C. Motor Speed Control ■



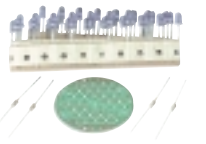
- This kit uses Pulse Width Modulation to vary the speed of a DC motor with maintenance of torque
- For motors up to 100VDC/5A max.
- Requires 5-16VDC supply (P/N 114825, pg 88)

35 pc. Kit

- Size: 3.6"L x 2.3"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Description	1	10
127829	DC motor control kit.....	$29.95	$26.95

BG Micro IR Illuminator Kit ●



- 36 high powered infrared LEDs
- Requires 12-15VDC power supply (recommend P/N 114825 – pg 88)
- At 24' the beam is approximately 3.5' across
- Size (circuit board): 2"Dia.
- Weight: 0.1 lbs.

41 pc. Kit

Part No.	Description	1	10	25
157964	IR illuminator kit	$14.95	$13.49	$11.95

Look for our cleaner more user friendly look

74LS00 Series

Part No.	Product No.	Pins
47001	74LS191	16
47010	74LS192★	16

Limited Quantitites Available

Items marked in blue

New Products Introduced in Our Catalog

Items marked in red

Part Number	Product Number
163635	DC2405F11
174851	DCR2405F12
174879	DCR2405F53

Speech Recognition Circuit Kit ▲



- Includes a PCB, keypad, digital display, microphone and necessary components
- Single chip voice recognition CMOS LSI
- Speaker dependent
- External RAM support
- Maximum 40 word recognition at .96 seconds word length
- Minimum 20 word recognition at 1.92 seconds word length • Microphone support
- Requires 9V battery (P/N 151095, pg 74)
- PCB dimensions: 4.8"L x 4.4"W • Weight: 0.6 lbs.
- Keypad dimensions: 2.8"L x 2.8"W

41 pc. Kit

Part No.	Product No.	Description	1	10
141401	HM2007U1	Speech kit	$99.95	$89.95

Time-out Timer Relay Kit ■



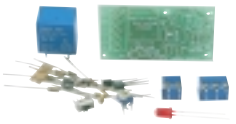
- Uses a 555 as a monostable timer
- Requires 12VDC supply (P/N 100095, pg 87)
- Size: 2.4"L x 1.7"W x 1.0"H
- Weight: 0.1 lbs.

24 pc. Kit

Part No.	Description	1	10
136215	Timer relay kit	$12.95	$11.49

Light Sensitive Relay Kit ■

Build a stable and advanced circuit that uses light to control a SPDT 10A relay.



- Requires 12VDC supply (P/N 100095, pg 87)
- Weight: 0.1 lbs.
- Size: 2.4"L x 1.3"W x 1.0"H

20 pc. Kit

Part No.	Description	1	10	25
136223	Light relay kit	$9.95	$8.95	$7.95

Siren Kit ●

20 pc. Kit



- Circuit designed around a dual op amp connected as an oscillator and driver
- Oscillator is off until you press the switch then a rising tone is produced until a steady value is reached
- If switch is released the tone starts dropping until it cuts off • Requires 9V battery (P/N 151095, pg 74)
- Size: 2.0"L x 0.8"W x 0.5"H • Weight: 0.2 lbs.

Part No.	Description	1	10	50	100
125137	9V siren	$5.95	$5.49	$4.95	$4.25

One Chip AM Radio Kit ■



- This kit uses a single IC that performs as an RF amp, detector and AGC in an AM radio
- Requires 9V battery (P/N 151095, pg 74)
- Size: 4.0"L x 1.3"W x 0.5"H
- Weight: 0.3 lbs.

39 pc. Kit

Part No.	Description	1	10	25
125161	AM radio kit	$14.95	$13.49	$11.95

Train Sound Kit ●

11 pc. Kit



- Produces 4 train sounds
- Components supplied for operation on 3VDC (includes battery holder for 2 AA), but circuit will operate from 2.4-6VDC (P/N 151087 (2), pg 74 or 155643, pg 87)
- Size: 1.1"L x 0.6"W x 0.2"H • Weight: 0.2 lbs.

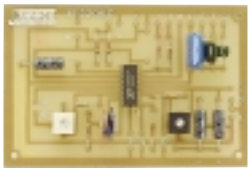
Part No.	Description	1	10	25
125170	4 train noises	$7.95	$6.95	$5.95

JAMECO® Electronic Kits

JE2206 Function Generator Kit ■

Sine, triangle and square wave

Great for prototyping electronic circuits, whether analog or digital! Produces sinusoidal, triangular (saw-tooth), and square wave-forms at frequencies continuously variable from 1Hz to 100kHz. Requires 12VDC supply or ±6VDC split supply.



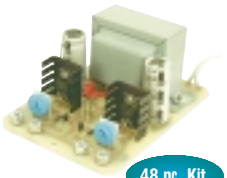
21 pc. Kit

Includes external components!

- 21 piece kit (chip, components, PC board, hardware)
- Recommend power supply P/N 20626 (below)
- Size: 4.1"L x 1.5"W • Weight: 0.1 lbs.

Part No.	Description	1	10	25
20685★	Function generator	$24.95	$22.95	$19.95

Dual Adjustable Power Supply Kit ■



- 48 piece kit (JE215) (components/hardware)
- Adjustable positive and negative supplies ±5 to ±15VDC regulated, 175mA - 750mA per supply
- Positive and negative 5VDC to 15VDC
- **Power output (each supply): 5VDC @ 750mA, 12VDC @ 500mA, and 15VDC @ 175mA**
- 120VAC input • PC board construction
- LED on indicator • Includes easy to follow instructions
- Size: 5.1"L x 3.5"W x 2.0"H • Weight: 2.1 lbs.

48 pc. Kit

Part No.	Description	1	10	25
20626★	Power supply kit	$22.95	$20.49	$18.49

Triple Voltage Power Supply Kit ■



- Input voltage: 120VAC @ 50/60Hz
- **Power output: Fixed + 5VDC @ 1 amp, adjustable +3 to +12VDC @ 100mA, adjustable -3 to -12VDC @ 100mA**
- Fuse protected
- PC board construction
- Size: 5.1"L x 5.1"W x 2.3"H
- Weight: 2.1 lbs.

103 pc. Kit

Part No.	Description	1	10	25
73613	Power supply kit	$26.95	$23.95	$19.95

Digital Voice Recorder Kit ■

20-sec. single or multiple voice/sound recorder



Front



Back

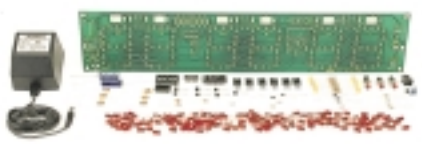
- ISD 1420P voice chip
- Easy to use 3 button switches (start, record and play)
- Flashing LED indicator alerts presence of message
- High quality, natural voice/audio reproduction
- Zero power message storage
- Requires four 1.5V AAA batteries P/N 151087 (4), pg 74 or 9VDC transformer (P/N 100845, pg 87)
- Board size: 4.6"L x 2.1"W • Weight: 0.3 lbs.

51 pc. Kit

Part No.	Product No.	Description	1	10
116484	JE920KIT	Voice recorder kit	$39.95	$35.95

JAMECO® Digital Clock Kit ■

2.5" High 6-Digit Display



105507 (JE725KIT)

183 pc. Kit

Super-Bright LEDs!

- Bright 2.5" high 6-digit displays (red)
- Can be viewed from over 50' away
- 12 hour or 24 hour display switch
- Fast and slow set switches
- Time hold control switch • Safe low input voltage: 9VAC
- 105507 kit includes: PC board, components, wall transformer and kit instructions – 183 total pieces (case with red lens sold separately)
- Assembled kit shown below (109268)
- Kit PC board size: 17.5"L x 3.5"W • Weight: 1.2 lbs.

Part No.	Description	1	10
105507	Digital clock kit	$69.95	$62.95

Enclosures for Digital Clock Kit (105507)



109233

38 pc. Kit

109241

- Includes red lens, mounting hardware and easy-to-follow instructions
- Black satin anodized aluminum
- Size: 18.0"L x 5.3"H x 1.4"D • Weight: 1.7 lbs.

SALE

Part No.	Product No.	Description	1	10
109233	JE725COB	Semi-open case	$13.95	$12.49
109241	JE725CEAN	Enclosed case	39.95	35.95

JAMECO® Digital Clock – Assembled

Assembled

2.5" High 6-Digit Display

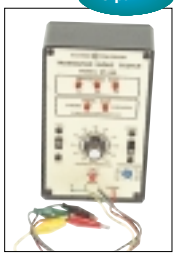


- Fully assembled JE725 digital clock in black satin anodized aluminum case (109241)
- Hour/minute hold switches • 8 ft. power cord
- Includes 9VDC @ 800mA power supply
- Size: 18.0"L x 5.3"H x 1.4"D • Weight: 3.5 lbs.

Part No.	Product No.	Description	1	10
109268	JE725AEA	Assembled clock	$119.95	$109.95

ELENCO Transistor and Diode Tester Kit ■

76 pc. Kit



- Black case • Weight: 1.0 lb.
- Size: 6.3"L x 3.8"W x 2.0"H

Transistor Mode:

- Checks all transistors
- Identifies NPN and PNP, PN or NP junctions • Measures relative beta of two transistors
- Can test transistors in circuit with base or collector resistors as low as 100Ω

Diode Mode:

- Checks all diode types – silicon, power, LEDs, zener
- Indicates cathode or anode leads of diode
- Operates in circuit with resistors 5K and above

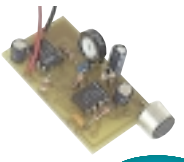
Part No.	Description	1	10
119360	Transistor and diode kit	$24.95	$22.49

JAMECO® Kits

KIT ASSEMBLY DIFFICULTY LEVEL:

● = Beginner ■ = Intermediate ▲ = Expert

Super Snooper Big Ear Audio Amplifier Mini Kit ■



17 pc. Kit

This kit allows you to listen through walls, hear conversations across the room or even listen to sounds a block away. By adding a parabolic reflector or mounting the microphone in a tube, you can isolate unwanted noise and make the microphone a directional one.

- Operating voltage: 9VDC (P/N 151095, pg 74)
- Outputs for speakers or headset
- Includes instructions and schematic
- Size: 1.8"L x 1.0"W x 0.6"H • Weight: 0.1 lbs.

Part No.	Description	1	10	100
151204	AA-1 big ear amp. kit...	$10.95	$9.95	$8.95

FM Stereo Transmitter Mini Kit ■



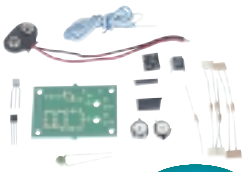
37 pc. Kit

Run your own FM radio station! Any stereo signal you plug into this unit will be transmitted to any FM radio tuneable from 76-108MHz. Plug in a CD player or tape deck and you have a wireless link to an FM radio within 200 feet. Clarity is approximately 40dB stereo separation. Comes with left and right inputs.

- Operating voltage: 9VDC (P/N 151095, pg 74)
- Includes instructions and schematics
- Size: 2.7"L x 2.0"W • Weight: 0.2 lbs.

Part No.	Description	1	10
151239	FMST-100 FM stereo kit	$29.95	$26.95

Digital Thermometer Adapter Mini Kit ●



16 pc. Kit

Turns your digital volt ohm meter into an accurate digital thermometer with 0.1 degree resolution. Measures temperature ranging from-40˚F to 250˚F. The remote sensor is 0.25" square.

- Requires a 9VDC battery (P/N 151095 pg 74)
- Size: 2.0"L x 1.4"W • Weight: 0.1 lbs.

Part No.	Description	1	10	100
151183	DT-3 thermometer kit.....	$9.95	$8.95	$7.95

JAMECO® Mini Kits Specification Book

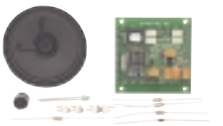


Provides you with schematic diagrams, parts list, assembly instructions, operating and testing, and additional information about the kits (P/N 151204/151239/151183/151167). It also provides a simple board layout and parts label. (56 pages)

- Size: 8.5" x 11" • Weight: 0.4 lbs.

Part No.	Description	1	10
151212	KB-1 Specification Book	$14.95	$13.49

SENSORY Interactive Speech Recognition Kit ■



Voice Direct 364 is a speaker dependent speech recognition module, allowing training of up to 15 words. This kit maps spoken commands to system control functions. Each time one of the words is recognized, output pins on the module are toggled high for 1 second.

Kit Includes: • Voice Direct 364 module

- Microphone element
- Speaker (2.25", 8Ω)
- Microswitches (4)
- Quick setup guide
- Passive component selection to configure the module

Part No.	Description	1	10
173489	Speech recognition kit.....	$59.95	$53.95

SENSORY VoiceDirect Speech Recognition Kit ■



8 pc. Kit

- Speaker-dependent speech recognition
- Minimal external components
- Recognizes up to 15 words or phrases
- 99% recognition up to 3.2 seconds
- Includes module, speaker, (3) push button switches, (1) microphone cartridge and manual • Wt.: 0.3 lbs.
- Size (module): 2.0" square PC board

Part No.	Description	1	10
162691	Speech recognition kit.....	$49.95	$44.95

TV Notch Filters Mini Kit ■

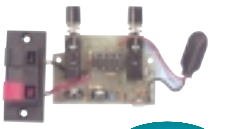


Eliminates unwanted TV channels or interference that alters sound and video. Works on cable channels 2 to 22 and 97 to 99.

- Includes instructions and schematics
- Size: 3.2"L x 0.9"W • Weight: 0.2 lbs.

Part No.	Description	1	10
151167	DF-222 TV filter kit	$14.95	$13.49

Capacitance Adapter Meter Kit ■

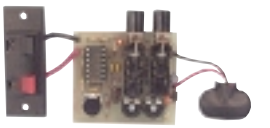


27 pc. Kit

- Measures capacitance range from 2pfd to 2μfd
- Works with multimeter w/ 2V range reading and 10MΩ input impedance
- Requires 9V battery (recommend P/N 151095 – pg 74)
- Includes instruction sheet w/ schematic diagram
- Size (board): 2.0"L x 1.8"W • Weight: 0.1 lbs.

Part No.	Description	1	10
158001	CA-1 capacitance adapter...	$12.95	$11.49

Inductance Adapter Meter Kit ■



22 pc. Kit

- Low inductor range: 3μH to 500μH
- High inductor range: 100μH to 5MH
- Works with multimeter w/ 2V range reading and 10MΩ input impedance
- Requires 7.5 to 15VDC power supply (recommend P/N 151095 (9V battery – pg 74) or P/N 127976 (12VDC @ 300mA – pg 87)
- Includes instruction sheet with schematic diagram
- Size (board): 2.5"L x 1.7"W • Weight: 0.1 lbs.

Part No.	Description	1	10
158027	IA-1 inductance adapter	$14.95	$13.49

Crossbow Digital Accelerometer Interface Card



- Measures and observes acceleration, impact, tilt, vibration, and other acceleration-related physical phenomena
- Simple digital interface for 1-axis P/N 141591 and 3-axis P/N 141575 accelerometers (below)
- Plugs into any RS232 port 38.4K baud
- 200Hz max. sampling rate
- Includes user friendly graphical software and 9VDC @ 500mA power supply
- Requires DE9 (male - female) cable – recommend P/N 25700 for DE9 cable (pg 174)
- Size: 3.0"L x 2.5"W x 1.3"H • Weight: 0.2 lbs.

Part No.	Description	1	5
141583	Digital interface card	$249.95	$224.95

Crossbow Accelerometer Modules

1-Axis and 3-Axis



141575

- Dynamic range, excellent frequency response, easy to interface to a standard acquisition systems
- Requires a 5VDC power supply (not included)
- Shielded cable: 2'L pigtail
- Dimensions: 1.9"L x 1.0"W x 0.8"H • Weight: 0.1 lbs.

Part No.	Product No.	Axis	Current	1	10
141591	CXL04M1	One	8mA.....	$109.95	$99.95
141575	CXL04M3	Three	24mA.....	249.95	219.95

Crossbow Accelerometer Evaluation Board



Evaluation board for the ADXL105, single axis, 5g accerometer.

Part No.	Product No.	Description	1	10
177295	ADXL105EB	Single axis	$49.95	$44.95

Crossbow Accelerometer Evaluation Boards



177308

Evaluation board for the ADXL202, dual axis, 2g accerometer.

P/N 177308: features RS232 interface to connect to PC serial ports. Also includes software to display real time acceleration data.

Part No.	Product No.	Description	1	10
177287	ADXL202EB	Dual axis	$49.95	$44.95
177308	ADXL202EB-232	Dual w/RS232	119.95	107.95

Crossbow HF Series Accelerometer



- Axis: Z • Easy to use
- Resolution: 300 uGrms
- Low noise, wide bandwidth
- ±10g and ±100g ranges
- Constant current or constant voltage excitation

Part No.	Product No.	Description	1	10
177324	CXL10HF1Z	Z axis.....	$159.95	$143.95

Crossbow BNC Adapter Box

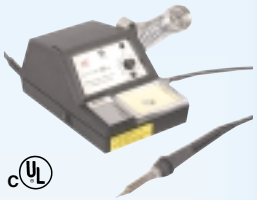


- Enables any Crossbow accelerometer without a regulator (the R-option) to be interfaced directly to most standard data acquisition systems
- Easy-to-use BNC outputs
- Molded plastic enclosure with three standard BNC female connectors and an on-off switch
- Compatible with oscilloscopes, chart recorders and other test equipment
- 9V battery or external power

Part No.	Product No.	Description	1	10
177316	CXBNC	BNC adapter.....	$99.95	$89.95

Temperature Controlled Soldering Station

ESD Safe Station



- Temperature controlled hand soldering
- High insulation/long life ceramic heating element
- Accurate heat sensing and compensation
- Thermal control adjustable from 150˚C to 450˚C (300˚F to 850˚F) and maintained within ±3˚C (±6˚F)
- ESD safe and spike free circuitry
- Temperature lock to prevent unwanted adjustments
- External calibration port
- LED indicator to indicate power on (green) or heater on (red) • CUL listed
- Includes instruction manual and Allen wrench
- Size: 7.7"L x 5.3"W x 3.8"H • Weight: 4.7 lbs.

Part No.	Product No.	Description	1	10
168719	XY136ESD	Station	$99.95	$89.95

Thermally Balanced Soldering Iron



The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord • 25 watt power consumption
- Interchangeable tips (pg 111)
- 1.6mm conical tip included • One-year warranty
- UL listed • Length: 8.0" • Weight: 0.6 lbs.

Part No.	Description	1	10	25
129040	25W solder. iron	$12.95	$11.49	$10.49

Soldering Iron, Stand & Sponge

116572: (JS1258)



116572

- 16-30 watt variable
- Lgth: 7.5" • Wt.: 0.6 lbs.

36329: (100S)



(SP715) 134631

36329

- Black anodized steel base – 5.3"L x 3.3"W
- Includes sponge **(SP715)**
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" diameter • Weight: 0.5 lbs.

Part No.	Description	1	10	100
116572	Soldering iron	$19.95	$17.95	$15.95
36329★	Soldering stand	3.49	2.95	2.49
134631	Sponge (for 100S)	1.49	1.25	.99

One-Shot Desoldering Gun



This low maintenance desoldering gun with self-contained vacuum pump is perfect for desoldering through-hole components.

- Power consumption: 60W
- 120VAC
- Ergonomic, lightweight design
- Interchangeable standard tips – 1.0mm tip included
- Zero static tip, 3 wire grounded
- Sensitive where CMOS protection is needed
- Quick release stainless solder collector
- Electronic temperature control • One-year warranty
- Gun casing size: 7.0"L x 4.0"W • Weight: 2.2 lbs.

Part No.	Description	1	10	25
129066	Desolder gun	$99.95	$89.95	$79.95
140214	"Y" replace.	9.95	8.95	7.95
134594	1.0mm rep. tip	7.95	6.95	5.95
134607	1.2mm rep. tip	7.95	6.95	5.95

Weller® 60 Watt Controlled Output Soldering Station



- 120VAC @ 60Hz input; 24V output
- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron
- Closed loop method of controlling maximum tip temperature – for protection of temperature sensitive components • Power unit housing features impact resistant plastic for durability
- Quick disconnect plug for soldering iron and lighted on/off switch • UL listed
- Separate conductor grounds iron tip and terminates third pin of power cord • Uses PT series tips
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Part No.	Product No.	Description	1	10
170552	WTCPT	Solder station	$149.95	$134.95

Weller® Soldering Station



- 40 watts, 120V @ 60Hz
- Lighted on/off switch
- Adjustable power from 5 watts - 40 watts
- Temperature is electronically controlled from 350°F to 850°F
- Includes ST3 1/8" screwdriver tip, soldering station, soldering handle and manual • UL listed • Wt.: 1.9 lbs.
- Size: 5.5"L x 4.5"W x 3.5"H • One-year warranty

Part No.	Product No.	Description	1	10
146595	WLC100	Soldering station	$49.95	$44.95

Weller® Soldering Station

Temperature Controlled

ESD Safe



- 50 watts of controlled power
- Temperature lockout prevents raising of temperature to high levels
- Temperature calibration allows user to reset temperature to match tip styles and sizes
- Quick heat-up and temperature recovery
- Accuracy within 9˚F (5˚C) • Automatic shut-off
- Temperature range: 350˚F - 850˚F (177˚C - 454˚C)
- UL/CUL approved • One-year warranty
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.2 lbs.

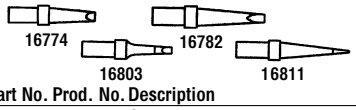
Part No.	Product No.	Description	1	10
166879	WES50	Soldering station	$119.95	$109.95

Weller® Soldering Tips

Replacement Tips for WES50



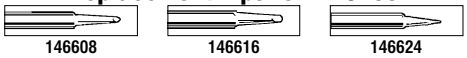
- Tip leakage: less than 2mV
- Tip to ground resistance: less than 2Ω
- Tips also used with WCC100 station
- Additional tips can be special ordered
- Weight: .02 lbs.



16774 16782 16803 16811

Part No.	Prod. No.	Description	1	10
16774	ETA	Screwdriver 1/16"	$6.95	$6.25
16782	ETJ	Long screwdrvr 1/32"	6.95	6.25
16803	ETR	Narrow screwdrvr 1/16"	6.95	6.25
16811	ETS	Long conical 1/64"	6.95	6.25

Replacement Tips for WLC100



146608 146616 146624

Part No.	Product No.	Description	1	10
146608	ST1	Screwdrvr tip 1/16"	$5.95	$4.95
146616	ST3	Screwdrvr tip 1/8"	5.95	5.35
146624	ST7	Conical tip 1/32"	5.95	4.95

Weller® Light Duty 23 Watt Soldering Iron



- Ideal for hobby or electronics kit work
- 1/8" removable tip
- 120VAC, 60Hz
- Additional tips can be special ordered
- Length: 8" • Weight: 0.2 lbs.

Part No.	Description	1	10	25
152872	Solder. iron (SP23)	$14.95	$13.49	$11.95

Weller® Professional 25 Watt Soldering Iron



- 120VAC @ 60Hz
- Interchangeable heater elements - provides user with a trio of different jobs • Quick change knurled collar
- Lightweight handle with cushioned grip
- Includes 3-conductor power cord • UL listed
- Length: 9" • Weight: 0.3 lbs.

Part No.	Product No.	Description	1	10
170587	WP25	25W solder iron	$34.95	$31.95

Weller® 40 Watt Soldering Iron



- 120VAC @ 50/60Hz
- Ideal for hobby and electronic work
- Develops 900˚F / 482˚C of heat
- MT10 1/4" / 10mm diameter replaceable nickel plated copper tip • Stainless steel barrel
- Heat and impact resistant handle
- Length: 8.25" • Weight: 2.3 lbs. • UL listed

Part No.	Product No.	Description	1	10
170561	SP40	40W solder iron	$19.95	$17.95

Weller® Desoldering Gun Kit



- 120VAC
- Ideal for light duty production and in-field repair
- Portable desoldering
- Disposable solder collector
- Lighted power switch
- Heats up to over 800˚F in minutes
- Includes tiplet clean out tool and 2 collector tubes
- Size: 8.7"L x 9.2"W x 3.3"H • Weight: 3.0 lbs.

Part No.	Product No.	Description	1	10
170579	SCD100	Desolder gun	$199.95	$179.95

Weller® Multifunction Heating Tool Kit



- Self igniting and instant heat
- Adjustable temperature (25W to 125W)
- Auto switch off
- Visible gas level of IN TANK
- 2 hours of heat on average tank setting
- Includes soldering tool, hot blower tip, hot knife tip, 2.4mm and 4.8mm double flat tip, cleaning sponge, storage case and instruction manual
- Additional tips can be special ordered
- Weight: 1.0 lb. • One-year warranty

Part No.	Description	1	10
152207	Multifunction heating tool	$89.95	$79.95

Analog Display Soldering Station

SMD Tip Below

Maintains a steady temperature using a cartridge heating element, providing a longer life for the solid soldering tip.

- Electronic temperature control from 300°F to 850°F
- Zero-voltage thyristor switching protects voltage and current sensitive devices such as CMOS ICs against voltage spikes
- Power-on and Heater-on LED indicators
- Power consumption: 60 watts
- Includes one 1/16" tip (P/N 35115 – below)
- See below right for replacement sponge (P/N 134640) • UL listed
- Size: 4.3"W x 6.0"D x 3.4"H • Weight: 4.1 lbs.



Part No.	Product No.	Description	1	10	25
114569	XY1683C	Analog display station	$89.95	$79.95	$72.95

Combo Soldering/ Desoldering Station and Desoldering Station

- XY968D: Digital Fahrenheit/Centigrade read out
- XY968D/XY999SDA: Anti-Clog/Energy Saver
- Maintenance free, quiet operation
- Simple fine tune feature to select 300˚F – 850˚F range
- Vacuum pump activated "on demand" using finger tip switch on desolder handle
- Spike control feature protects current sensitive components such as CMOS ICs
- Rapid heat-up/recovery design sensor monitors tip to detect extremely small temperature deviations
- See right for replacement sponge (P/N 134631)
- One-year warranty



125508 (Desolder Station)
Size: 9.2"L x 7.2"W x 3.6"H



125516 (Combo Solder/Desolder)
Size: 11"L x 10"W x 4"H

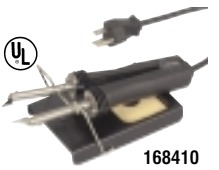
Part No.	Product No.	Description	Wt. (lbs.)	1	5
125508	XY968D	Desoldering station	13.1	$299.95	$269.95
125516	XYT988	Soldering/desoldering station	18.1	399.95	359.95

SMD Tweez Iron

- Maximum efficiency ceramic heating elements insures rapid heat-up and instant heat recovery
- 120VAC • Heater insulation exceeds 100MΩ



168583



168410

- Heater power consumption: 35W x 2 • Max. temp.: 760˚F • UL approved

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
168410	TWZ236	SMD tweez iron	0.9	$59.95	$53.95	$48.95
168583	46-060102	Tip .078" for P/N 168410	.02	9.95	8.95	7.95
168591	46-060115	Tip .590" for P/N 168410	.02	10.95	9.95	8.95

Digital Display Soldering Station

The XY960-ESD Digital Display Soldering Station is designed for soldering situations where precise temperature is required for sensitive components.

- Easy to read .560"H 3-digit LED readout
- Temperature is maintained at ±6°F tolerance of the set temperature
- Electronic temperature control from 200°F to 878°F
- External calibration port
- Zero-voltage thyristor switching protects voltage and current sensitive devices such as CMOS ICs against voltage spikes
- Power-on and Heater-on LED indicators
- Power consumption: 60 watts • UL listed
- Includes one 1/16" tip (P/N 35115 – below)
- See below for replacement sponge (P/N 134631)
- Size: 5.1"W x 8.0"D x 4.0"H • Weight: 4.8 lbs.

Now ESD Safe!





168401

Part No.	Product No.	Description	1	10	25
162456	XY960D-ESD	Soldering station with ESD	$139.95	$124.95	$114.95
168401	TWZ50ESD	SMD tweezer iron for above soldering station (plugs into P/N 162456)	69.95	62.95	56.95
168583	46-060102	Tip .078" for P/N 168401	9.95	8.95	7.95
168591	46-060115	Tip .590" for P/N 168401	10.95	9.95	8.95

Temperature Controlled Soldering Station

Grounded Soldering Tip

- Temperature controlled hand soldering
- Insulated ceramic heating element for rapid heat-up and heat recovery • Fully grounded
- Heater insulation exceeds 100MΩ
- Thermal control adjustable from 250˚C to 450˚C (500˚F to 850˚F)
- Ergonomic mini handle • UL listed
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Soldering handle is attached to the base with silicone rubber grounded power cord
- Includes instruction manual • Size: 7.0"L x 4.5"W x 3.5"H
- **P/N 156814:** standard tip for 156785



156785

Part No.	Product No.	Description	Wt. (lbs.)	1	10	25
156785	XYT379	Soldering station	2.5	$59.95	$53.95	$48.95
156814	44-510601	Sharp conical 1/32"	.02	3.95	3.49	2.95
156822	44-510604	Chisel conical 1/16"	.02	3.95	3.49	2.95

Accessory Sponges

- P/N 134640 for models XY168, XY1683 and XY1683C
- P/N 134631 for models XY960, XYT379, XY369 and XY100S (above & pg 115)



134631

Part No.	Product No.	Description	1	10	100
134640	SP815	48mmL x 48mmW sponge	$1.49	$1.25	$.99
134631	SP715	48mmL x 52mmW sponge	1.49	1.25	.99

Tips & Replacement Parts (for above) XY Series Soldering & Desoldering Products



Figure 1 Figure 2 Figure 3 Figure 4 Figure 5 Figure 6 Figure 7 Figure 8 Figure 9 Figure 10 Figure 11

Part Number	Product Number	Description	Wt. (lbs.)	Fig.	For Model Numbers (*Previous Models) JSI258	XY136	XY168*	XY1683C	XY960/AESD*/DESD	XY966D*	XY968D	XY999SDA	XY2660*	XY200GX	TWZ226*	Pricing 1	10	25
35078	XY1	Soldering tip - semi-chisel 1/32"	.02	1	✓		✓	✓	✓			✓		✓		$3.95	$3.49	$2.95
35115	XY2	Soldering tip - conical chisel 1/16"	.02	2	✓		✓	✓	✓			✓		✓		3.95	3.49	2.95
35238	XY3	Soldering tip - semi-chisel wide 1/8"	.02	1	✓		✓	✓	✓			✓		✓		3.95	3.49	2.95
35326	XY5	Soldering tip - conical bevel 1/32"	.02	3	✓		✓	✓	✓			✓		✓		3.95	3.49	2.95
35334	XY6	Soldering tip - conical sharp 1/64"	.02	4	✓		✓	✓	✓			✓		✓		3.95	3.49	2.95
35191	XY25	Soldering tip - conical sharp 1/64"	.02	5									✓			4.95	4.49	3.95
35297	XY37	Heating element- (nichrome)	.05	6			✓	✓	✓			✓				19.95	17.95	15.95
35318	XY48	Assembly - 60W w/ nichrome heater	.40	7			✓	✓	✓			✓				29.95	26.95	23.95
127634	XY50	Desoldering tip - 1.0mm (.0394")	.01	8						✓	✓	✓				7.95	6.95	5.95
127642	XY51	Desoldering tip - 1.2mm (.0472")	.01	8						✓	✓	✓				7.95	6.95	5.95
127651	XY52	Desoldering tip - 1.5mm (.0586")	.01	8						✓	✓	✓				7.95	6.95	5.95
137058	XY55	Tweez tip - .079"	.10	9											✓	12.95	11.49	9.95
137066	XY56	Tweez tip - .393"	.10	10											✓	12.95	11.49	9.95
140231	XY461	Soldering tip - SMD flat pack 5.5mm	.03	11				✓	✓			✓				7.95	6.95	5.95
181913	XYB01	Soldering tip - conical chisel 1/32"	.02	5		✓										4.95	4.49	3.95

WAHL® Cordless Soldering Irons

- 900˚F tip temperature
- Iron performance equivalent to 25 watt iron
- Includes soldering iron, recharging stand, Ni-Cad battery pack, and tips
- One-year warranty



IsoTip® Quick Charge Soldering Iron

Model #7700

- Recharges in 3–4 hours
- Solders continuous up to 20 minutes or 120 joints per charge • Weight: 1.1 lbs.

Part No.	Description	1	10
132775	Quick-charge cordless iron	$49.95	$44.95

IsoTip® Power Pro Soldering Iron



Model #7904:

The #1 choice for field service soldering!

- Solders 200+ joints or up to 30 minutes of continuous soldering
- Recharges in 3–4 hours
- LED indicator light
- Weight: 1.1 lbs.

Part No.	Description	1	10
132783	Power Pro cordless iron	$69.95	$62.95

WAHL® Mini Portable Torch



- Electronic ignition
- Runs approximately 20 minutes of continuous flame per cartridge
- Uses regular lighter refills
- Maximum temperature range: 1300˚C / 2375˚F
- Size: 2.0"W x 0.8"D x 4.4"H
- Weight: 0.3 lbs.

Part No.	Description	1	10
152215	Portable mini torch	$19.95	$17.95

WAHL® Portable Heat Gun



- Portable and flameless heat
- Temperatures up 1200˚F (650˚C)
- Typical applications: shrink tubing, activate adhesives and potting compounds, form plastics and laminates and preheat flux
- Each cartridge (disposable butane lighter) provides approximately 20 minutes of heat
- Includes disposable gas lighter
- Electronic ignition • Weight: 0.3 lbs.
- Size: 4.8"L x 0.9"W • One-year warranty

Part No.	Description	1	10
150691	Portable, flameless heat gun	$29.95	$26.95

JAMECO® Heat Gun



- Use with heat shrink material
- Works with spot-dry paint, plaster, spackle cure adhesives
- Will remove adhesive-applied tiles and linoleum without chipping
- Dual heat setting: 600°F/1100°F
- Can thaw pipes, frozen locks and loosen rusted bolts
- UL listed • Weight: 1.8 lbs. • Size: 9.3"L x 7.0"W

Part No.	Description	1	10	25
76865	Heat gun	$39.95	$35.95	$31.95

JAMECO® Electric and Non-Electric Desolder Pumps

- Easily disassembled for cleaning
- One-hand operation



19254

- Replacement tips available

19254: • UL listed • Weight: 0.5 lbs. • Size: 10.5"L x 1.0"Dia.



19166

19166: • Size: 7.8"L x 0.8"Dia. • Wt.: 0.2 lbs.

Part No.	Description	1	10
19254	Electric desolder pump	$26.95	$23.95
19166★	Non-electric desolder pump	4.95	4.49
22091	(2) tips for 19166	2.95	2.49
19262	(1) tip for 19254	3.95	3.49

JAMECO® Soldering Iron and Stand

- 110-120VAC
- 30 watt
- UL approved



102461

- 1/4" removable tip • Ideal for precision work
- One-hand operation • Length: 8.3" • Wt.: 0.3 lbs.

Part No.	Description	1	10	100
102461★	30W soldering iron	$3.95	$3.49	$2.95
116020	Replacement tips (2)	1.95	1.49	.99
36329★	Soldering stand	3.49	2.95	2.49

Multifunction Heating Tool Kit



Multifunction hobby tool for soldering, woodburning, leather crafts and stencil cutting; works as a hot knife.

- 120VAC, 25W heating element
- Contains the following tips:
  - Three solder tips: cove type, fine point, chisel type
  - Hot knife holder blade
  - Four craft tips: general purpose point, grading point, script point, dot point
- Includes solder & heating tool stand • UL, CSA listed
- Weight: 0.5 lbs. • One-year warranty

Part No.	Description	1	10
129015	Multifunc. heating tool	$12.95	$11.95

JAMECO® Ultrasonic Steri-Cleaner



- Power: 80W
- Operating freq: 46KHz
- Pwr supply: 110VAC @ 60Hz, standard 2-prong 6' cord
- Tank capacity: 0.5 gallons
- Size (unit): 6.8"W x 6.5"D x 8.0"H
- Size (tank): 6.0"W x 5.4"D x 4.0"H
- One-year warranty • Wt.: 4.3 lbs.

Part No.	Description	1	10
149841	Ultrasonic steri-cleaner	$249.95	$224.95

XYTRONIC Soldering Tip Cleaner w/ Stand



- For cleaning soldering iron tips without the use of water and sponge
- Rubberized base for stability
- Metal wool for cleaning
- Size: 3.5"Dia. x 1.5"H • Wt.: 0.5 lbs.

Part No.	Description	1	10	50
156777	Tip cleaner & stand	$6.95	$6.25	$5.59
160004	Metal wool replacement	2.49	2.25	1.95

JAMECO® 300 Watt Solder Pot

Temperature Regulated between 420˚C - 450˚C



- Input volt.: 110VAC @ 2.7A; 50/60Hz
- 2 conductor power cord; 5' 9" long
- HI/LO switch selectable for temperature
- Holds up to 1 bar of P/N 170464 or 176057 (below)
- One-year warranty
- Size: (tub) 2.4" Dia. x 1.6" Deep
- Size: (unit) 4.8"H x 5.5" Dia. (base) • Weight: 5.9 lbs.

Part No.	Description	1	10	25
160303	300W solder pot	$59.95	$53.95	$48.95

JAMECO® 600 Watt Solder Pot

Temperature Adjustable



- Input voltage: 110VAC @ 5.5A
- 2-prong power cord (5'5")
- Tin boiler temp.: 0˚C to 500˚C
- Self regulating temperature
- Includes skimmer and removable dross tray • Weight: 7.4 lbs.
- On-off power switch and LED indicator for heat
- Holds up to 3 bars of P/N 170464 or 176057 (below)
- Size: (tub) 3.9"L x 1.6"D; (unit) 6.8"L x 5.5"W x 2.8"H

Part No.	Description	1	10
172275	600W solder pot	$189.95	$159.95

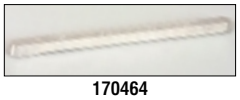
JAMECO® 2000 Watt Solder Pot



- Input voltage: 110V @ 18A 60/50Hz single phase
- 3 conductor pigtail power cord: 5' long
- Thermostat control for setting temperature from 50°C to 300°C
- Holds up to 48 bars of P/N 170464 or 176057 (below)
- Size (unit): 18.1"L X 11.5"W X 6.0"H • Wt.: 23.1 lbs.
- Size (tub): 12.0"L X 8.0"W X 2.9"H • One-year warranty

Part No.	Description	1	5
149876	2000 watt solder pot	$329.95	$299.95

JAMECO® Solder Bars



- Used for soldering pots
- Tin/lead
- Size: 13"L x 0.9"Dia.
- Weight: 1.1 lbs.

170464

Part No.	Description	1	10
176057	Solder bar (60/40)	$6.95	$5.49
170464	Solder bar (63/37)	14.95	13.49

JAMECO® Solder Stand



- 12 pc. solder stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft diameter: 0.6"
- Weight: 1.6 lbs.

Solder not included

Part No.	Description	1	10	100
141760	Solder stand	$8.95	$7.95	$6.95

JAMECO® Solder Spool & Iron Stand



- 4 pc. stand (some assembly required)
- Shaft diameter: 0.6"
- Size: 6"L x 3.5"W x 3.1"H
- Sponge size: 1.6"W x 2.4"L
- Weight: 2.0 lbs.

Part No.	Description	1	10	100
169551	Spool and iron stand	$12.95	$11.95	$10.95

Fume Extractors and Filters

Absorbs noxious lead fumes using activated-carbon filter and a high efficiency fan

- Operate continuously providing filtered air
- Air flow: 115 CFM
- Compact size allows use on work bench with minimum space
- 120VAC, 60Hz, 22 watt
- On/off power switch
- Aerodynamic hood design for effective removal of solder fumes
- Noise: 49dB fan
- Fuse protected
- Includes detachable power cord
- Removable carbon impregnated filter
- Static ground jack
- One-year warranty


168268


120150

168268:
- High carbon plastic case
- Size: 8.5"W x 5.0"D x 8.0"H • Weight: 4.2 lbs.

120150:
- Black anodized aluminum case
- Size: 6.4"W x 4.6"D x 7.9"H • Weight: 4.6 lbs.

Part No.	Description	1	10	25
168268	Fume ext. (ESD safe)	$59.95	$53.95	$49.95
120150	Fume extractor	79.95	71.95	64.95
127183	Replace. filters (2/pk)	9.95	8.95	7.95

Plastic Pump Bottle



- 6 oz. bottle • ESD compliant
- Plastic bottle with dispenser cover
- Weight: 0.2 lbs.

Part No.	Description	1	10	50
158131	Pump bottle	$9.95	$8.95	$7.95

7 Piece Soldering Aid Kit


100378


100503

100503 contains:
- Soldering wick • 3 piece scraper set
- Acid brush • Clip on heat sink • Empty squirt bottle

Part No.	Description	Wt. (lbs.)	1	10	50	100
100378	Heat sink	0.01	$.69	$.59	$.49	$.39
100503	Soldering kit	0.2	5.95	4.95	4.79	4.29

2 Piece Electronic Inspection Set



- Sharp metal pick (0.1"Dia. x 6.0"L) – great for PCB re-work
- Bent mirror tool (0.1"Dia. x 6.8"L) – for visual inspection • Weight: 0.1 lbs.

Part No.	Description	1	10
72514	Electronic inspection set	$3.95	$3.49

Clip-On Heat Sink



- Absorbs and dissipates heat during soldering and desoldering sensitive parts
- Size: 2.7"L x 0.7"W

Part No.	Product No.	Wt. (lbs.)	1	10
159126	HT156	0.04	$1.95	$1.75

Kester and JAMECO Rosin Core Solder Rolls and Pocket Paks

- P/N 151474 is organic core



Part No.	Mfg.	% Composition Tin	Lead	Silver	Dia. (In.)	Wt. (lbs.)	1	10	50	100
73576	Kester (pak)	60	40	0	.031	0.04	$1.25	$1.09	$.99	$.79
32117	Kester	60	40	0	.031	1.00	11.95	10.95	9.95	8.95
73605	Kester (pak)	62	36	2	.020	0.10	1.75	1.49	1.25	.99
112344	Kester	63	37	0	.020	1.10	15.95	14.49	13.95	12.95
151474	Kester	63	37	0	.031	1.00	11.95	10.95	9.95	8.95
170456	Jameco (pak)	60	40	0	.031	0.06	.99	.85	.69	.55
141794	Jameco	60	40	0	.031	0.55	4.95	4.49	3.95	3.49
141786	Jameco	60	40	0	.031	1.10	7.95	6.95	6.25	5.59
141778	Jameco	60	40	0	.031	2.20	13.95	12.95	11.95	10.95

Rosin Paste Flux



A highly active non-corrosive flux with excellent wetting action. Specifically for electrical/electronic applications. Permits soldering of even difficult metals such as brass or nickel.
Non-corrosive & electrically non-conductive.
- Weight: 0.2 lbs.

Part No.	Description	1	10	100
73584	Rosin paste flux	$1.19	$1.09	$.99

Lead-Free Solder Tip Tinner



Use will prevent oxide buildups and tin depletion on the tip which will increase tip life, and heat transfer resulting in a better solder joint!
- 0.7 oz. tin with self adhesive pad
- Weight: 0.06 lbs.

Safe and Effective!

Part No.	Description	1	10	50
132986	Lead-free tip tinner	$4.25	$3.95	$3.75

CHIPQUIK® SMD Removal Kit



- Quick and easy to use
- Uses simple equipment and materials for application and clean-up
- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins • Weight: 0.1 lbs.

Part No.	Description	1	10	25
141305	SMD removal kit	$19.95	$17.95	$15.95

JAMECO 5' Desoldering Braids


41099

- Easy to use handy dispenser
- Braided copper with flux
- Weight: 0.03 lbs.

Part No.	Description	1	10	100
41081	.079"W braid (5')	$.99	$.79	$.65
41099	.098"W braid (5')	1.09	.89	.75
153461	.120"W braid (5')	1.25	1.09	.99

TECHSPRAY 6' No-Clean Desolder Braids


124126 124118

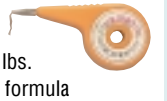
Meets all of the most stringent soldering standards for worldwide application including: MIL-F-142560D Type R, NASA specification NHB5300.4, NPC200-4 and SP-5002. • Length: 6'

6' for the price of 5'!

Part No.	Description	Wt. (lbs.)	1	10	100
139951	.030"W braid	0.02	$2.25	$1.95	$1.75
124126	.060"W braid	0.01	2.25	1.95	1.75
124118	.085"W braid	0.02	2.25	1.95	1.75

JAMECO Desoldering Wick

No more burnt fingers



- Length: 6' • 0.067" wide
- Handy dispenser • Weight: 0.05 lbs.
- Pure copper braid • No clean flux formula

Part No.	Description	1	10	25
175986	0.067" braid	$2.25	$1.95	$1.75

TECHSPRAY Workshop Products


118050 118041 118033 139934 139900

- EPA SNAP approved, no CFCs or HCFCs
- Safe on plastics
- **NOTE: Shipped via UPS ground only**

DOES NOT CONTRIBUTE TO GLOBAL OZONE DEPLETION

Dusting Gas

- Acc-u-sol trigger • 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
139900	Dusting gas w/ trigger	0.8	$6.95	$6.25

Cleaner Degreaser

- Rapid evaporation • 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
118050	Cleaner degreaser	0.8	$8.95	$7.95

Flux Remover

- Dissolves type R, RMA, RA, SA and most no-clean fluxes • 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
118041	Flux remover	0.8	$9.95	$8.95

Contact Cleaner

- Ideal for switches, relays, contact pads and other places of electrical connections
- 10 oz. aerosol can
- Solvent will not damage switch housings

Part No.	Description	Wt. (lbs.)	1	12
118033	Contact cleaner	0.9	$8.95	$7.95

Envi•Ro•Tech™ Freezer

A rapidly evaporating liquid that can chill to -62°F.
- 10 oz. aerosol can

Part No.	Description	Wt. (lbs.)	1	12
139934	Envi•Ro•Tech freezer	0.8	$7.95	$6.95

TECHSPRAY Contact Protector/Enhancer

RID-OX



Provides protective coating containing polyphenyl ether which produces a micro thin shield against oxidation. Designed to protect electronic connections during storage, transportation, and operation.
- 6 oz. can • Weight: 0.5 lbs.

Part No.	Description	1	12
170544	Contact protector/enhancer	$10.95	$9.95

3M Wrist Strap for Static Protection



- Rubberized wrist strap for comfort
- 1MΩ resistance for static dissipation
- Length: 5'
- Coiled cord with a banana plug and alligator clip
- Zipper style mechanism adjustable to any size wrist

Part No.	Description	1	10	100
159257	Adjustable strap	$7.95	$6.95	$6.25

3M Field Service Kit



This kit provides all the basic items needed to create a static-safe work environment for field service work. The kit includes a 3M adjustable Wrist Band 2204, ground cords, and a static-dissipative work surface.

Part No.	Description	1	10
159994	8506 field service kit	$34.95	$31.49

JAMECO Protective Coiled Wrist Grounding Strap



- Comfortable, adjustable Velcro wrist strap
- The coiled cord has banana plug and alligator clips
- Includes a 1MΩ resistor for added safety
- Extended cord: 9' long • Color: black • Wt: 0.1 lbs.

Part No.	Description	1	10	100
34551★	Anti-static strap	$6.95	$5.95	$4.95

JAMECO Anti-Static Heel Strap



- Discharges static without restricting your mobility
- Ideal for anyone handling static sensitive devices
- Ground strap: 15.5"L
- Color: black • Weight: 0.1 lbs.

Part No.	Description	1	10	100
100327	Heel strap	$5.95	$5.35	$4.75

JAMECO Anti-Static Work Mats



168508

Make your work environment safe from static discharge! These mats are made of attractive looking semi-conductive vinyl that provides adequate discharging, yet will not short leads or pins.

- Includes grounding clip • Color: gray

Part No.	Dimensions	Wt. (lbs.)	1	10	100
10575	11.3" x 22"	0.7	$8.95	$7.95	$6.95
10583	19.5" x 23.5"	1.1	11.95	10.49	9.95
168508	24" x 28"	1.8	12.95	11.49	9.95

JAMECO Anti-Static Touch Pad



- Pad has 1MΩof resistance
- Coiled ground strap with removable alligator clip, 6'L
- Color: blue
- Size: 15.0"L x 0.5"W • Wt.: 0.1 lbs.

Part No.	Product No.	Description	1	10	100
20327	JE1215	Anti-static pad	$4.95	$4.49	$3.95

JAMECO Conductive Anti-Static Foam and Bags

13864



78668



Don't get zapped!

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

- For safe storage of static sensitive devices
- Size: (13864) 24.0"L x 12.0"W x 0.3"H

Part No.	Description	Wt. (lbs.)	1	10	100
13864	Anti-static foam	0.1	$7.95	$6.95	$5.95
78668	4x6 anti-static bags	.01	.29	.25	.19
78650	8x10 anti-static bags	.02	.59	.49	.39

STATICO ESD Common Point Grounding Cord



- 15 ft. long table mat/wrist strap common point grounding cord
- One end provides a 3/8" (10mm) female socket to snap-on the ESD mat and two wrist strap banana connection receptacles, one for operator and one for guest and a No.10 ring terminal at the other end furnishes the means for ground connection

Part No.	Product No.	Description	1	10
176137	S1030NRF	Grounding cord	$10.95	$9.95

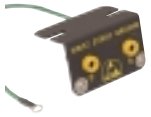
STATICO 4-Point Common Point Grounding Cord



- 15 ft. long straight cord common point ground
- Ideal for multiple grounding
- Grounds up to 4 wrist straps through 4 banana receptacles
- Grounding end termination is a banana plug
- Provides a direct path to ground

Part No.	Product No.	Description	1	10
176129	S1046	Grounding cord	$11.95	$10.49

STATICO Dual Wrist Strap Grounding Block



- Provides two grounding points for wrist straps
- 15 ft. long green cord for direct path to ground
- Wrist strap cords can be snapped on to the two male snaps provided, while the operator is away from the work bench
- An extra No. 10 ring terminal is included for alteration

Part No.	Product No.	Description	1	10
176145	S1045	Grounding block	$12.95	$11.49

STATICO Wrist Strap Tester



- Easy to use on-demand tester for wrist grounding straps
- Tests in two ranges: 750kΩ - 10MΩ and 900kΩ - 35MΩ
- Indicates test status through LEDs for high fail, low fail, pass and low battery • Includes 9V battery
- Checks wrist straps for 1MΩ current limiting resistor, skin contact and continuity

Part No.	Product No.	Description	1	10
176153	S2111	Wrist strap tester	$99.95	$89.95

STATICO Digital Electrostatic Fieldmeter



- Locates and measures static charge potentials on products, people, equipment, and packaging
- Utilizes a non-contact, chopper stabilized field sensor, a ranging light mechanism to ensure correct measurements of electrostatic fields in all areas
- Can be used in ionized environments
- Housed in a conductive, impact-resistant case and includes ground lead
- Features on/off slide switch, sample/hold pushbutton and zero control knob • Operates at 0-40˚C
- Measurement range +/-0.00 to 19.99KV @ 1"
- Includes 9V battery and leather case
- Size; 4.2"L x 2.4"W x 0.9"D • Weight: 0.3 lbs.

Part No.	Description	1	10
176170	Electrostatic fieldmeter	$529.95	$479.95

STATICO Static Eliminator, Bench Model Ionizer



- A highly reliable blower for static elimination featuring a variable speed fan, an integral air flow diffuser and a separately controlled heater for operator comfort
- Provides a powerful airflow w/ very low noise level
- Overhead mountable on walls or pedestals
- Self balancing: maintains 0 ±5 volts balance at all normal operating conditions
- 80-160 cubic ft/minute air volume
- 550 ft/minute @ 2 ft air velocity at maximum fan speed • Line voltage: 115VAC; 50/60Hz
- 60˚ ionized air coverage angle
- 63 dBa max @ 2 ft noise level
- Ozone per UL 867 requirements
- Size: 10.0"L x 12.0"W x 6.3"H • Weight: 8.0 lbs.

Part No.	Description	Price
176111	Static eliminator, ionizer	$499.95

STATICO Surface Resistivity/ Resistance Checker



- Easy to use tester to quickly determine the resistivity/resistance of the ESD surfaces
- Colored LEDs indicate test results
- With two brass bars, employs the ASTM Standard D257 method of parallel sensing
- Tests surfaces for 3 ranges of conductive, static dissipative and insulative
- Tests resistance to ground through a connecting lead (provided) • Size: 5.1"L x 2.8"W x 1.0"H
- Includes 9V battery and leather case • Wt.: 0.6 lbs.

Part No.	Description	1	10
176161	Resistance checker	$329.95	$299.95

STATICO ESD Disposable Heel Grounding Strap



- Easy to use, peel-off adhesive strip
- Most convenient for visitors/guests
- Ideal for temporary/one time use
- 1X10E6 ohm/linear foot
- 11.75"L x 0.6"W • 10 pack

Part No.	Description	1	10
181930	Disposable heel strap	$6.95	$6.25

STATICO ESD Disposable Wrist Grounding Strap



- Most convenient for visitors/guests
- Ideal for temporary/one time use
- One size fits all
- 36"L x 0.25"W

Part No.	Description	1	10	100
181921	Disposable wrist strap	$1.49	$1.39	$1.19

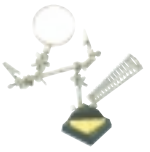
JAMECO® Clamp Vise



- Lightweight, sturdy construction
- Nylon jaws open 2"
- Ball cup allows vise to adjust to any angle
- No tools needed – finger turn to tighten
- Size: 10.0"L x 2.5"W • Weight: 2.1 lbs.

Part No.	Description	1	10
127167	Clamp vise	$19.95	$17.95

JAMECO® Third Hand



72864

- Frees hands for soldering
- Two adjustable arms with alligator clip jaws
- 2" diameter magnifying lens
- Quick and easy rotation
- Sturdy, heavy base
- Weight (P/N 26690): 0.7 lbs. (P/N 72864): 1.4 lbs.

Part No.	Description	1	10	50
26690	Third hand	$4.95	$4.49	$3.95
72864	W/ soldering holder	6.95	6.25	5.59

PanaVise® Vacuum Vise



- Features the patented "split ball" that tilts, turns and rotates through three planes
- Nylon jaws open a full 2.25"
- Powerful suction pad for quick and easy set-up
- Size: 5.0"L x 4.0"W x 6.3"H
- Weight: 3.3 lbs. • One-year warranty

Part No.	Product No.	Description	1	10
27131	M381	Vacuum vise	$59.95	$53.95

PanaVise® Electronic Work Center



- Circuit board holder, standard base, tray base mount, solder station, sponges, and wire holder included
- Size: 8.5"W x 7.8"H
- Weight: 5.3 lbs.
- One-year warranty

Part No.	Description	1	10	25
27060	Electronic work center	$79.95	$69.95	$64.95

PanaVise® PVjr. Vice



- Jaw opening: 2.8"
- Jaw size: 1"W x 2"T
- Jaw heat tolerance: 350˚F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- The vise neck tilts, turns and rotates
- Vise height: 6.8"
- Base bolt is 4.3" and fits all PanaVise base mounts
- Weight: 1.4 lbs. • One-year warranty

Part No.	Description	1	10
134439	Jr. vice w/ mountable base	$21.95	$19.95

Jameco EZ Lock Pliers



- Automatic self sizing locking pliers
- Variable pressure for adjustable gripping force
- Drop forge construction for strength and durability
- Padded handles for comfort
- Length: 10" • Weight: 1.5 lbs.

Part No.	Description	1	10	50	100
179928	EZ lock pliers	$9.95	$8.95	$7.95	$6.95

JAMECO® Retaining Ring Pliers

Internal / External



- Hi-carbon tempered steel
- Black oxide finish
- Vinyl grip
- For 0.47" to 0.98" diameter retaining rings
- Length: 6"
- Weight: 0.2 lbs.

Part No.	Description	1	10	25
177551	Retaining ring pliers	$6.95	$6.25	$5.59

JAMECO® Groove Joint Pliers



- Drop forged steel
- Milled jaws
- Vinyl grips
- Polished head
- Length: 10"
- Weight: 0.9 lbs.

Part No.	Description	1	10	50	100
177578	Groove pliers	$5.95	$5.49	$4.95	$4.49

JAMECO® Slip Joint Pliers



- Drop forged steel
- Heat treated
- Polished head
- Milled jaws
- Vinyl grips
- Length: 8"
- Weight: 0.6 lbs.

Part No.	Description	1	10	50	100
177586	Slip pliers	$4.95	$4.49	$3.95	$3.49

JAMECO® Linesman Pliers



- Drop forged steel
- Heat treated
- Milled jaws
- Vinyl grips
- Polished head
- Length: 8"
- Weight: 0.9 lbs.

Part No.	Description	1	10	50	100
177594	Linesman pliers	$4.95	$4.49	$3.95	$3.49

JAMECO® Long Nose Pliers



- Drop forged steel
- Heat treated
- Knurled jaws
- Vinyl grips
- Spring return action
- Length: 4.5"
- Weight: 0.2 lbs.

Part No.	Description	1	10	50	100
177607	Long pliers	$3.95	$3.49	$2.95	$2.49

JAMECO® Diagonal Pliers



- Drop forged steel
- Heat treated
- Vinyl grips
- Spring return action
- Polished head
- Length: 4"
- Weight: 0.2 lbs.

Part No.	Description	1	10	50	100
179901	Diagonal pliers	$3.95	$3.49	$2.95	$2.49

JAMECO® 13 Piece 3/8" Drive Socket Set

With Holder



- Drop forged
- Heat treated
- Metric size (8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm 18mm, 19mm)
- Fully polished and chrome plated
- Weight: 1.2 lbs.

Part No.	Description	1	10	50	100
179910	Metric set	$9.95	$8.95	$7.95	$6.95

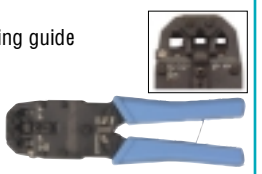
JAMECO® Rotary Coax Cable Stripper



- Includes hex key wrench
- Strips coax cable at 6mm or 8mm length
- Strip coax cables up to 7mm in diameter
- Preset v-block for RG-6, RG59, and RG-62 cables
- Color: black
- Size: 5.0"L x 0.8"W
- Weight: 0.2 lbs.

Part No.	Product No.	1	10	25
181155	HT-302A	$10.95	$9.95	$8.95

JAMECO® Professional Modular Crimping Tool



- Spring return action
- 6mm and 12mm stripping guide
- Crimp modular plugs without changing dies
- Crimps 10P10C, (RJ45) 8P8C, (RJ11 and RJ12) 6P6C, and (Handset) 4P4C
- Insulated handles
- Size: 8.2"L • Weight: 1.2 lbs.

Part No.	Product No.	1	10	25
181147	HT200	$59.95	$53.95	$49.95

JAMECO® 26 Piece Computer Service Toolkit

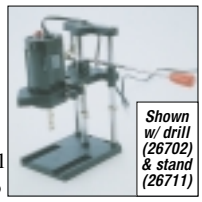


- Anti-static wrist strap
- 14-16 pin and 24-28 pin IC inserters
- (1) DIP extraction tool
- (1) PLCC surface mount extraction tool
- 3.5 digit digital multi-meter with probes
- Adjustable wrench
- Long nose pliers
- Diagonal cutters
- Mini heating tool
- Rosin core solder
- Desoldering pump
- Heat tool stand
- Inspection mirror
- Heavy duty wire stripper/cutter/ crimper (for non-insulated terminals)
- Screw driver handle with 4" extender; (2) nut drivers (1/4" and 3/16"); (3) slotted screw-drivers (1/8", 3/16", 1/4"); (3) Philips screw-drivers (No.0, No.1, No.2); (2) torque screw-drivers (T-10 and T-15)
- Black leather case
- Size: 13.1"L x 9.8"W x 2.5"H • Weight: 4.3 lbs.

Part No.	Description	1	10	25
177463	Computer tool kit	$49.95	$44.95	$39.95

JAMECO® Mini-Drill and Stand

This Mini Drill (26702) is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling and grinding (sanding) attachments. Drill stand (26711) is designed to function like a drill press.



Part No.	Description	Wt. (lbs.)	1	10	25
26702	MS398 drill	0.8	$29.95	$26.95	$23.95
26711	MS399 stand	1.8	19.95	17.95	15.95
159054	6-pc engraving bits set		10.95	9.95	8.95

JAMECO® Drill Tool Kit

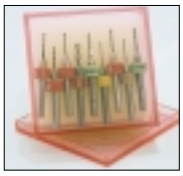
This tool will polish, grind, sand, scrape, buff, cut, crave, drill and mill.



- Drill tool has adjustable knob for speed control from 5000rpm to 20,000rpm
- Spindle in ball bearing
- Lock function for easy bit changing
- Includes 1mm carbide drill, 2.3mm carbide cutter, 1.8mm diamond cutter, spherical shape grinding A, conic shape grinding A, cylinderic shape grinding A/B/C, copper brush, connection rod, saw blade, 3.3t grinding, 0.6t grinding, 2.35mm bit chuck, 3.0mm bit chuck
- 18VDC @ 1A table top power supplied included
- Size: (kit) 10.2"L x 7.2"W x 3.2"H
- Weight: 4.3 lbs.

Part No.	Description	1	10	25
176065	Drill tool kit	$69.95	$62.95	$56.95

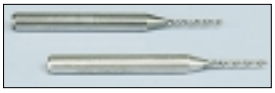
9 Piece Assorted Drill Bit Kit



- Variety of sizes: .014" to .126"
- Each kit will vary in contents of bit sizes
- Shank diameter: .125"
- Includes plastic case
- Weight: 0.1 lbs.

Part No.	Description	1	10	50
131676	9-piece drill bit kit	$9.95	$8.95	$7.95

Spiral Step Tool Company PC Drill Bits



- Reconditioned carbon steel bits
- High quality long lasting cutting edge
- Use for drilling holes in glass PC boards
- Weight: 0.1 lbs. • Shank diameter: .125"

Part Number	Drill Dia.	No.	Application	1	10	100
16619	.021"	75	Miscellaneous	$1.49	$1.25	$.75
16580	.040"	59	Plated thru holes	1.75	1.49	.99

JAMECO® 6 Step Drill Tool

3/16" to 1/2"



Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal, and wood up to 1/8" thick. No center punching on most sizes. Made of high-speed steel.

- Drill size: 3/16" to 1/2" • Weight: 0.1 lbs.

Part No.	Description	1	10	25
172401	Step drill	$9.95	$8.95	$7.95

Engraving Tool with Battery Pack

SALE





- Includes diamond tip capable of engraving any surface
- Ideal for light engraving work
- Requires 4 AA batteries or wall transformer (not included see below)
- Size: 6.5"L (with tip)
- Weight: 0.3 lbs.

Part No.	Description	1	10
152506	Engraving tool	$13.95	$12.49
151087	AA batteries	.39	.32
147707	6VDC wall transformer	5.49	4.95
159054	Replacement tip (6 pcs.)	10.95	9.95

JAMECO® Metal Dial Calipers

Metric or Inches



- For accurate measurements every time • Measures outside, inside and depth
- Easy to read dial gauge
- Materials: metal
- Length: 6" (150mm)
- Includes fitted plastic storage case
- Color: silver • Weight: 0.7 lbs.

Part No.	Description (min. reading)	1	10	25
116134	Metric (.02 mm)	$24.95	$22.49	$19.95
116126	Inches (.001 inch)	24.95	22.49	19.95

JAMECO® Digital Display Calipers

Metric and Inches



- Hardened stainless steel
- Display: inches to 1/1000THS mm to 1/100THS
- Resolution: 0.01mm(0.0005")
- Instructions for making internal, external, depth and step measurements
- Auto-off after 5 minutes • One-year warranty
- Includes fitted case and 1.5V silver oxide battery (replacement battery – P/N 140783, pg 74)
- Calipers measure to 6 inches/150mm • Weight: 0.8 lbs.

Part No.	Description	1	5	10
127482	Digital disp. calipers	$69.95	$62.95	$56.95

Precision Micrometer

0"–1" Range ± .0001"

SALE



Forged steel frame precision micrometer is complete with chrome barrel and thimble for easy to read contrasting graduation. Hardened, precision ground measuring surface with positive spindle lock holds measurements. Accurate to .0001". Quick and easy zero adjustment with spanner wrench.

- Length: 5.4" • Weight: 0.7 lbs.

Part No.	Description	1	10	25
169543	Precision micrometer	$17.95	$15.95	$14.49

JAMECO® Pocket Swivel Deburring Tool

One Tool for all Shapes and Sizes



- Aluminum handle
- Heat treated alloy steel blade
- Pen type of pocket convenience
- Swivel deburring tip rotates to match burred surface with only slight pressure
- Size: 5.5"L • Weight: 0.1 lbs.

Part No.	Description	1	10	25
172902	Deburring tool	$4.95	$4.49	$3.95

JAMECO® 3 Pc. Extractor Tool Set

1/16" to 17/64" Dia.



- Used for extracting screws and bolts
- Drill appropriate size hole in stub and extractor then turn counterclockwise
- Extractor sizes: #1 (1/16"-1/8"); #2 (3/32"-11/64"); #3 (1/8"-17/64") • Weight: 0.1 lbs.

Part No.	Description	1	10	25
171192	3 pc. extractor tool set	$3.95	$3.49	$2.95

ESP® Vac Tweezer



Pick and place small parts of all kinds, glass slides, coins, optics, SMDs, film or any other small items. Contains:

(5) pad sizes- 0.140" to 0.400", (5) straight tips, (2) 45° angle tips

- Size: 2.9"L x 0.6"W • Weight: 0.1 lbs.
- One-year warranty

Part No.	Description	1	10
88268	Vacuum pick & place kit	$29.95	$26.95

Stainless Steel Precision Tweezer



- Acid-resistant
- Non-magnetic
- Size: 6" long
- Weight: 0.1 lbs.

Part No.	Description	1	10	50
148831	Straight tweezer	$2.95	$2.49	$1.95

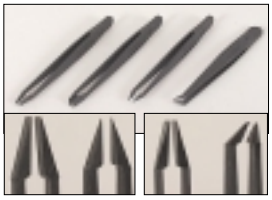
4 Piece Steel Tweezer Set



- 4 different style stainless steel tweezers, including one self-locking
- Ideal for picking up small components in hard to reach places as well as component assembly on PC prototype boards
- Weight: 0.1 lbs.

Part No.	Description	1	10	25
10735	4 piece tweezer set	$5.95	$4.95	$3.95

JAMECO® 4-Piece Conductive SMD Tweezer Set



- 4 types of tweezers: fine point, flat head for 4mm SMD chip device, flat head for 8mm SMD chip device, sharp angled tip
- Each is 4.5" long
- Weight: 0.1 lbs.

Part No.	Description	1	10	25
172638	4-piece tweezer set	$9.95	$8.95	$7.95

JAMECO® Cordless Screwdriver



- 3.6V rechargeable battery
- Adjustable handle can be used folded or unfolded for ease of use
- Thumb touch switch for reverse and forward action
- No load speed: 180rpm
- Clutch operating torque from 4 to 21kg/cm
- **Note: charge overnight prior to usage**
- Includes 6VDC@300mA power supply and screwdriver bit (Standard and Philips)
- Size: 10.5"L x 1.5" Dia. • Weight: 1.6 lbs.

Part No.	Description	1	10
176680	Screwdriver	$39.95	$35.95

10 Piece Hex Key Wrench Sets

- **72469** includes 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, and 10mm wrenches
- **72477** includes 1/16, 5/64, 3/32, 1/8, 5/32, 3/16, 7/32, 1/4, 5/16 and 3/8" wrenches


72469

Part No.	Description	Wt. (lbs.)	1	10
72469	Metric hex key	0.6	$3.95	$3.49
72477	SAE hex key	0.5	3.95	3.49

JAMECO 8-Piece Fold-Up Torx Keyset

- 3.7" long handle
- Torx bit: T9, T10, T15, T20, T25, T27, T30, T40
- Size: 3.7"L x 1.2"W
- Weight: 0.4 lbs.



Part No.	Description	1	10	100
176006	Torx keyset	$9.95	$8.95	$7.95

10 Piece Open-end/Box Wrench Set

- Includes 10 wrenches w/ the following sizes:
  (3/8, 7/16)
  (11/32, 3/8)
  (5/16, 11/32)
  (9/32, 5/6) (1/4, 9/32) (7/32, 15/64) (15/64, 1/4)
  (13/64, 7/32)
  (3/16, 5/32) (5/32, 3/16)
- Material: alloy steel • Weight: 0.3 lbs.

Part No.	Product No.	Description	1	10
99602	WS608	10 pc. wrench set	$8.95	$7.95

JAMECO 4-Way Master Key Chuck Tool

- Opens a variety of chucks (P/N 172911 opens 86 types); (P/N 172929 opens 127 types)
- Opens most chucks from manufacturers such as Cooper, Milwaukee, Craftsman, Black and Decker, and Rohm



172911: • Chuck size: 1/4" to 3/8" • Wt.: 0.3 lbs.

172929: • Chuck size: 1/2" to 3/4" • Wt.: 0.6 lbs.

Part No.	Description	1	10	25
172911	Opens 86 chuck	$7.95	$6.95	$6.25
172929	Opens 127 chucks	9.95	8.95	7.95

Pin VISE w/ Reversible Chuck Nose

- Knurled steel swivel handle
- Solid locking chuck noses
- Adjustable chuck nose from .00" to .05" and .05" to .08"
- Length: 3.5" • Weight: 0.1 lbs.



Part No.	Description	1	10	25
173323	Pin vise	$6.95	$5.95	$5.35

JAMECO Precision 5 Piece Stainless Steel Plier Set

- 5 pc. set includes: micro cutting nippers (3.5"L), micro round nose pliers (4"L), micro long nose pliers (4"L), micro flat nose pliers (4"L) and micro bent nose pliers (4"L)
- Spring return • Insulated handles



Part No.	Description	Wt. (lbs)	1	10	25
73120	5 piece set	0.6	$16.95	$14.95	$13.49

JAMECO Flat and Half Round Long Nose Pliers

- Stainless steel • Spring return
- Durable rubber handles
- 5.3" length w/ 1.4" plier nose
- Knurl jaws • Weight: 0.2 lbs.


35473

Part No.	Description	1	10	50	100
35473	Flat long nose	$4.95	$4.49	$3.95	$3.49
35490	Half round	4.95	4.49	3.95	3.49

Xcelite Shearcutter/Plier Tool Set

- Improved handle grip for control and comfort
- Non-glare black finish carbon steel
- Size (plier): 5.6"L
- Size (shearcutter): 5.2"L
- Weight: 0.4 lbs.



Part No.	Description	1	10	25
152055	Cutter/plier set (S2K)	$14.95	$13.49	$11.95

Xcelite Pliers


146712 146739 146721

• Spring returns • Weight: 0.2 lbs.

146712: Micro series wire cutter – flush

146739: Diag. wire cutter – semi-flush

146721: Long needle nose – flat

MADE IN THE USA

Part No.	Product No.	1	10	25
146712	170M	$5.95	$5.35	$4.79
146739	MS54V	13.95	12.49	11.25
146721	MN7776V	15.95	14.49	12.95

Xcelite 6 Piece Precision ESD Screwdriver Set

Swivel caps and comfort grip handles provide optimum control.

- Cushion grip
- 4 flat points: 0.1"Dia. x 6.5"L
- 2 Phillips: No. 0 and 00 – 0.1"Dia. x 6.5"L
- Weight: 0.5 lbs.



Part No.	Product No.	1	10
168735	XP600	$21.95	$19.95

JAMECO Pocket Screwdriver

Phillips/Blade

- Pocket screwdriver with Phillips and flat head • Pen clip for pocket storage • Size: 6"L



Part No.	Description	1	10	100
127271	Pocket screwdriver	$.99	$.79	$.65

8 Piece Electrician Screwdriver Set

- Insulated handle and blade protection-up to 1000V
- Four flat points: 0.24"Dia. x 9.91"L; 0.2"Dia. x 8.92"L; 0.16"Dia. x 7.54"L; 0.1"Dia. x 6.10"L
- One flat point with Buz light: 0.16"Dia. x 7.4"L
- Three Phillips: No. 0, 0.1"Dia. x 6.10"L; No.1, 0.16"Dia. x 7.54"L; No.2, 0.24"Dia. x 9.91"L
- Material: chrome-vanadium • Weight: 1.2 lbs.



Part No.	Product No.	Description	1	10
99688	SD315B	8 pc. screwdriver set	$8.95	$7.95

6 Piece Electronic Screwdriver Set

- Three slotted points: 0.09"Dia. x 6.65"L; 0.12"Dia. x 6.64"L; 0.16"Dia. x 9.61"L
- Three Phillips: No.0, 0.12"Dia. x 6.64"L; No.1, 0.16"Dia. x 9.61"L; No.2, 0.09"Dia. x 6.65"L
- Weight: 0.4 lbs.



Part No.	Description	1	10	25
99451	6 pc. screwdriver set	$7.95	$6.95	$5.95

6 Piece Screwdriver and Pliers Set

- One micro cutting nipper
- One micro flat nose pliers
- Two flat points: 0.12"Dia. x 9.61"L; 0.09"Dia. x 7.64"L
- Two Phillips: No.0, 0.12"Dia. x 9.61"L; No.2, 0.09"Dia. x 7.64"L • Weight: 0.5 lbs.



Part No.	Description	1	10	25
99565	Screwdriver/plier set	$10.95	$9.95	$8.95

6 Piece Precision Screwdriver Sets

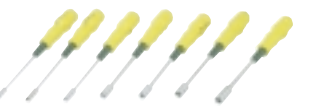
- **34041** includes 3/64", 1/16", 5/64", 5/32", 1/8" and 9/64" slotted screwdrivers
- Weight: 0.3 lbs.
- **34059** includes 3/64"#0, 1/16"#0, 5/64"#0, 3/32"#0, 1/8"#1 and 9/64"#1 Phillips screwdrivers • Weight: 0.3 lbs.


34041

Part No.	Description	1	10	50
34041	Slotted screwdriver set	$2.95	$2.49	$2.25
34059	Phillips screwdriver set	2.95	2.49	1.95

7 Piece Hex Driver Tool Set

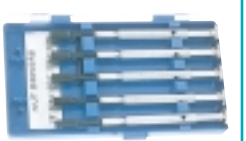
- Includes one of each of the following: (unit: mm) 3, 3.5, 4, 4.5, 5, 5.5 and 6mm
- Size of drivers: 6.3"L • Weight: 0.5 lbs.



Part No.	Description	1	10
148929	Hex nut driver tool set	$12.95	$11.49

5 Piece Precision Nut Driver Set

- Includes one each of the following nutdrivers: 1/8", 9/64", 5/32", 11/64", 3/16"
- Size of driver: 4" length
- Case size: 5.3"L x 3.0"W
- Weight: 0.3 lbs.



Part No.	Description	1	10	50
34067	Prec. nut driver set	$1.95	$1.75	$1.49

JAMECO® Diagonal Wire Cutter



- Cuts component wire up to 1.2mm thick
- Stainless steel
- Durable rubber handles
- Jaws are designed for flush cutting
- 4.3"L x 2.1"W with 0.5" cutting blade
- Weight: 0.1 lbs.

Part No.	Description	1	10	50	100
35481	Wire cutter	$4.95	$4.49	$3.95	$3.49

Diagonal Wire Cutter



- Cuts component wire up to 1.2mm thick and .08mm fine wire
- Insulated handles
- Jaws are designed for flush cutting
- 5.0"L x 1.8"W with 0.5" cutting blade
- Weight: 0.2 lbs.

Part No.	Product No.	1	10	25
161411	Wire cutter	$6.95	$5.95	$4.49

2-in-1 Wire Stripper and Cutter



- Cutter with safety clip
- Able to strip wire up to 3/4" in length
- Strips 26-14 gauge wires
- Size: 5.2"L x 3.0"W
- Weight: 0.2 lbs.

Part No.	Description	1	10
148911	2-in-1 wire stripper/cutter	$9.95	$8.95

Terminal Wire Crimping Tool



- Crimps solderless terminals: 22-18 AWG red, 16-14 AWG blue and 12-10 AWG yellow
- Size: 9.0"L x 2.0"W
- Weight: 0.8 lbs.

Part No.	Product No.	1	10	25
72995	HT303	$14.95	$13.49	$11.95

Plastic Modular Crimping Tool



- Crimps 4P, 6P and 8P plugs (4P2C, 4P4C, 6P2C, 6P4C, 6P6C, 8P2C, 8P4C, 8P6C, 8P8C)
- Size: 8.0"L
- Weight: 0.5 lbs.

Part No.	Description	1	10	25
116097	RJ11 crimping tool	$14.95	$13.49	$11.95

JAMECO® 5-in-1 Hand Tool



- Wire stripper, wire cutter, bolt cutter
- Insulated terminal crimper
- Ignition & coax crimper
- Strips 22-10 gauge wires
- Crimps 22-10 gauge crimp pins
- Heavy duty vinyl grip
- Size: 9.0"L x 2.5"W • Weight: 0.6 lbs.

Part No.	Product No.	Description	1	10
153496	TC1240	Crimping tool	$4.49	$3.95

JAMECO® Trimmer Potentiometer Adjustment Pocket Tool



- Glass filled body
- Stainless steel blade
- Color: black • Size: 5.2"L • Weight: 0.02 lbs.

Part No.	Description	1	10	100
153314	Trimmer tool	$1.19	$.99	$.89

Paladin Tools® Impact Punch-Down Tool

Conforms to AT&T performance specification. Reversible clip-in blade, adjustable spring-loaded impact mechanism and spare storage blade in the handle.



- One-year warranty

124142: For 66-type bifurcated terminals
- Size: 7.0"L x 1.4"W x 1.1"H • Weight: 0.4 lbs.

124151: Blade for 110-type terminals • Wt.: 0.1 lbs.

Part No.	Description	1	10	25
124142	Tool w/ blade	$54.95	$49.95	$44.95
124151	Punch-down 110 blade	15.95	14.49	12.95

JAMECO® Impact Punch Down Tool

- Reversible clip in blade
- Adjustable (HI-LO) spring loaded impact mechanism
- Storage bin on handle for spare blade





175071: Punch down tool with blade
- For 66 type terminals
- Size: 5.2"L x 1.5"W x 1.0"H
- Weight: 0.4 lbs.

175089: Punch down blade
- Blade for 110 type terminals • Weight: 0.1 lbs.

Part No.	Description	1	10	25
175071	Tool w/ 66 blade	$34.95	$31.49	$27.95
175089	Punch down blade 110	9.95	8.95	7.95

Automatic Center Punch Tool

Adjustable



- Precision instrument
- Alloy steel point
- Knurled steel body
- Size: 5.0"L x 0.5"Dia.
- Weight: 0.2 lbs.

Part No.	Description	1	10	50	100
160282	Center punch tool	$5.95	$5.49	$4.95	$4.49

JAMECO® T-Handle Reamer Tool

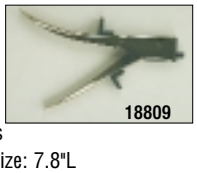
Excellent for aluminum chasis work



- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Size: (handle) 3.3"L; (tool) 5.3"L • Weight: 0.2 lbs.

Part No.	Description	1	10	25
151749	Reamer tool	$7.95	$6.95	$5.95

Nibbling Tool



- Perfect for cutting and trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on chassis, printed circuit boards and prototype models
- Min. .375" hole required • Size: 7.8"L

18809: • Weight: 0.4 lbs **29330:** • Weight: 0.1 lbs.

Part No.	Prod. No.	Description	1	10	25
18809	HT204	Nibbling tool	$8.95	$7.95	$6.95
29330	HT204B	Replacement bit	3.95	3.49	2.95

Punch Down Impact Tool

With #66 Blade



- For seating wire into terminal blocks or cut off wire end after terminated
- Frame made of polyacepal resin with fiber glass
- Adjustable impact pressure control



- Storage on handle for spare blade
- Compatible with P/N 133161 (#110 blade)
- Size: 6.8"L x 1.2"W x 1.1"H • Weight: 0.4 lbs.

Note: *not compatible w/ Harris Dracon & Paladin blades*

Part No.	Product No.	1	10	25
159134	HT314	$29.95	$26.95	$23.95
133161	HT14B (#110 blade)	7.95	6.95	6.25

Economy Non-Impact Punch-Down Tool



- Terminates 66-type bifurcated terminals
- Reversible blade – one end terminates and the other terminates and cuts the wire
- Handle made of polyacepal resin and fiberglass
- Handle size: 5.6"L x 1.2"W x 1.1"H • Weight: 0.1 lbs.

Part No.	Prod. No.	Description	1	10	25
133153	HT334	Tool w/ blade	$16.95	$14.95	$13.95
133161	HT14B	#110 blade	7.95	6.95	6.25

Rotary Coax Cable Strippers

2 and 3 Blade



- Includes hex key wrench for adjusting blade
- Weight: 0.2 lbs.

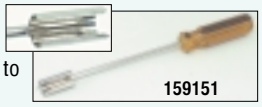
159118:
Two settings RG58/59/62
- For cable sizes 4-10mm
- Size: 4.2"L x 1.3"W
- Color: black



159185:
Four settings RG58/59/62/174
- For cable sizes 4-12mm
- Size: 3.9"L x 0.7"W • Color: gray

Part No.	Product No.	1	10	25
159118	HT312B (3 blade)	$9.95	$8.95	$7.95
159185	HT332D (2 blade)	10.95	9.95	8.95

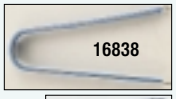
BNC Connector Removal Tools



- For deep chasis removal
- Allows access to hard to reach places

Part No.	Prod. No.	Size	Wt. (lbs.)	1	10	25
159151	HT2206	6"L	0.2	$7.95	$6.95	$5.95
152047	HT2212	12"L	0.3	9.95	8.95	7.95

PLCC Surface Mount and DIP IC Extractors



- Size: 4.0"L x 2.0"W (both)

16838: DIP IC extraction tool
- Weight: 0.04 lbs.

16766: PLCC IC extraction tool
- Weight: 0.06 lbs.



Part No.	Product No.	1	10	100
16838	HT103A	$1.25	$1.09	$.99
16766★	HT103B	3.95	3.49	2.95

Ratcheted Modular Crimping Tools

- Insulated grip
- Ratcheted type
- Metal material

159329: • 7.5"L
- Crimps RJ11/12 (6P6C) and handset (4P4C)
- Weight: 0.7 lbs.

159311: • 7.5"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C)
- Weight: 0.7 lbs.

159337: • 8.0"L
- Crimps RJ45 (8P8C) and RJ11/12 (6P6C) and handset (4P4C)
- Weight: 1.2 lbs.

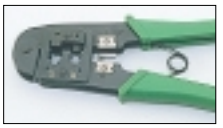

159329


159337

Part No.	Product No.	Description	1	10	25
159329	HT546R	RJ11/12	$14.95	$13.49	$11.95
159311	HT568R	RJ45/11/12	24.95	22.49	19.95
159337	HT2008R	RJ45/11/12	59.95	53.95	49.95

Metal Modular Crimping Tools

- Cable stripper and wire cutter • Size: 8.0"L
- Weight: 1.8 lbs.
- **73091:** Crimps 4P and 6P plugs (4P2C, 4P4C, 6P2C, 6P4C, 6P6C, RJ11)
- **114526:** Crimps 6P and 8P plugs (6P2C, 6P4C, 6P6C, RJ11, 8P2C, 8P4C, 8P6C, 8P8C)


114526

Part No.	Description	1	10	25
73091	RJ11(4P4C)/(6P6C)	$19.95	$17.95	$15.95
114526	RJ11(6P6C)/RJ45(8P8C)	19.95	17.95	15.95

Modular Crimping Tool Set

- 8" metal modular crimping tool
- Cuts, strips and crimps
- Crimps 4P, 6P and 8P plugs
- Includes 90 modular plugs: 40 4P4C modular plugs (616), 30 6P6C modular plugs (623), 20 8P8C modular plugs (641)
- Carrying case: blue hard plastic, 8.0"L x 10.5"W x 2.0"H
- Weight: 2.1 lbs.



Part No.	Product No.	1	10	25
73496	HT2000B	$79.95	$69.95	$64.95

RG58U/59U Coax Tool Set

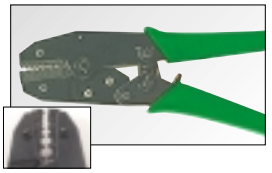
- Heavy duty 9" crimping tool
- Heavy duty 6.5" cutter
- Coaxial cable stripper
- Includes sturdy locking case
- Weight: 2.3 lbs.



Part No.	Product No.	Description	1	10	25
148849	HT3010	3 pieces	$39.95	$35.95	$31.95

Ratcheted BNC Crimping Tool

- Crimps RG58, RG59, RG62, RG174 and fiber optic
- All steel construction
- Size: 8.5"L x 2.5"W
- Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
114534	HT-3019	$19.95	$17.95	$15.95

D-Sub Crimping Tool

20-28 AWG

- Crimps D-sub pins and sockets
- For use with P/Ns 43377, 43369 (pg 60) and 100765 (pg 56)
- Size: 7.0"L x 4.0"W
- Weight: 0.4 lbs.

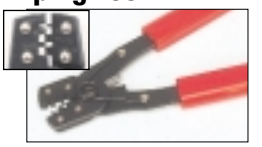


Part No.	Product No.	1	10	25
159265	HT213	$9.95	$8.95	$7.95

Non-Insulated Terminal D-Sub Crimping Tool

14-26 AWG

- Heavy-duty metal crimping tool w/ cutter
- For computer pins and sockets, D-sub 26-28 AWG wire
- For butt-insulated connectors, 22-26 AWG wire
- For telephone spade lugs, 22-26 AWG wire
- For non-insulated connectors, 20-22 AWG wire
- For non-insulated connectors, 14-18 AWG wire
- Red insulated handles • Coiled spring return
- Size: 7.3"L x 1.5"W • Weight: 0.5 lbs.



Part No.	Product No.	1	10	25	100
99442	HT202A	$7.95	$7.25	$6.49	$5.95

Hex Crimping Tool

RG58/59/62/142

- Crimps BNC connectors to RG58/59/62/142
- Crimps center pin
- Adjustable grip opening
- Insulated grip handles
- Size: 9.0"L x 2.0"W
- Weight: 1.5 lbs.



Part No.	Product No.	1	10	25
159302	HT106D	$14.95	$13.49	$11.95

IDC Crimping Tool

- Crimping distance: 27.5mm to 6mm (with attachment)
- Cushioned red handles
- Crimp insulation displacement connectors
- Use for IDC socket connectors (pg 56)
- Size: 9.2"L x 3.0"W • Weight: 1.1 lbs.



Part No.	Product No.	1	10	25
73251★	HT214	$11.95	$10.95	$9.95

Universal Stripping Tool

Strips Round and Irregular Shaped Cable

- Strips 18-22 AWG wires
- For STP/UTP, computer cable, SPT-1/SPT-2, flat wire: 2P/4P/6P/8P
- Size: 4.5"L x 2.0"W
- Weight: 0.1 lbs.



Part No.	Product No.	1	10	25
159169	HT501	$5.95	$5.35	$4.79

Metal Deburring Tool

Large Handle

- Enlarges hole up to 2.56mm (0.1") in diameter
- Size: 6"L
- Weight: 0.1 lbs.



Part No.	Product No.	Price
159193	HT111	$3.95

Wire Cutter / Stripper

24 AWG Stripper

- Strips and cuts wire up to 24 AWG
- Insulated grips
- Spring loaded for easy use
- Cutter angled @ 45 degrees for use in tight places
- Size: 6.6"L x 3.0"W
- Weight: 0.1 lbs.



Part No.	Product No.	1	10	25
159273	HT1091	$3.95	$3.49	$2.95

Wire Cutters / Strippers

- Insulated handles
- Spring return
- Tempered steel cutting edge
- Adjustment for wire gauges
- Size: 5.0"L x 3.0"W
- Weight: 0.2 lbs.
- One-year warranty
- **P/N 183003** for 12-24 AWG wire
- **P/N 78991** for 10-30 AWG wire


78991

SALE

Part No.	Product No.	1	10	50
183003	JE107	$2.95	$2.49	$2.25
78991	HT108	2.95	2.49	2.25

Wire Stripper Tool

22-30 AWG

- Wire stripper, cutter, steel wire cutter, and wire loop
- Scale: AWG and mm
- Strips and cuts wires from 20-30 AWG
- Size: 6.6"L x 2.0"W
- Weight: 0.3 lbs.



Part No.	Product No.	1	10	25
159290	HT5023	$7.95	$6.95	$6.25

7-in-1 Hand Tools

- Wire stripper, wire cutter, steel wire cutter, pliers and wire loop
- Scale: mm and inch
- Closed lock
- Crimping tool
- Solderless connector crimper
- Size: 6.6"L x 3.0"W
- Weight: 0.4 lbs.


18796

Part No.	Product No.	Description	1	10	25
18796	HT104	10-18AWG	$3.95	$3.49	$2.95
127861	HT1042	16-26AWG	4.95	4.49	3.95
127870	HT1043	22-30AWG	4.95	4.49	3.95

Cable Tie Tool

Tightens & Cuts

- All steel construction
- Tightening cable ties up to 2.3mm (.09") thickness
- Separate cutting handle
- Size: 6.3"L x 3.6"W
- Weight: 0.5 lbs.



Part No.	Product No.	1	10	25
159281	HT2081	$6.95	$6.25	$5.59

Information at Your Fingertips

Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

Black Desk Lamps

- Ventilated metal shade
- Double shade reduces glare
- Lampholder switch
- Max. bulb size 60W (not included)
- 110V input
- Rotating on-off switch


159951 159960

P/N 159951: Lamp

• Base size: 5.5" diameter • Height: 16.0" • Wt: 2.5 lbs.

P/N 159960: Lamp w/ organizer (for pens & paper clips)

• Base size: 7.1"H x 4.2"W • Height: 15.0" • Wt: 2.0 lbs.

Part No.	Description	1	10	100
159951	Desk lamp	$4.95	$4.49	$3.49
159960	Lamp w/ organizer	5.95	4.95	3.95

Black Light Lamp

Detects Counterfeit Bills

This black light lamp can detect counterfeit currency bills, logo's on credit cards and blemishes on smooth surfaces.



- Includes 12VDC @ 500mA wall transformer (2.5mm center positive)
- Size: 7.0"L x 3.4"W x 2.3"
- Weight: 1.3 lbs.



Part No.	Description	1	10	25
153189	Black light lamp	$9.95	$8.95	$6.95

Heavy Duty 3X Magnifying Lamps

- 45" extension arm
- Supplied with 22 watt Circline tube
- New wire clip design permits easy installation
- Power requirement: 110VAC/60Hz



- 3X magnification • Weight: 7.3 lbs.

Part No.	Description	1	10	25
100829	Black lamp	$59.95	$53.95	$47.95
149981	White lamp	59.95	53.95	47.95

Standard Adjustable 3X Magnifying Lamp

- 4" Diameter lens
- Maneuverable 30" arm extension
- Lamp tilts or turns in any direction
- Uses 60W incandescent bulb (not included)
- 3X magnification • Wt.: 2.9 lbs.
- Power requirement: 110VAC/60Hz



Part No.	Description	1	10	25
22710	Magnifying lamp	$29.95	$26.95	$23.95

3X Magnifier with Adjustable Stand



- Heavy duty steel base
- Size: 15"L (full stand) x 4"Dia. (base)

Part No.	Description	Wt. (lbs.)	1	10
148881	Magnifier	2.5	$12.95	$11.49

General Purpose Illuminated 3X Magnifier

- 3X power • 75mm diameter lens
- Great for magnifying fine print
- Light requires 2 AA batteries (not included) • Weight: 0.4 lbs.
- Size: 7.5"L x 3.75"Dia.



Part No.	Description	1	10	25
149542	Illuminated magnifier	$4.95	$4.49	$3.95

1,000,000 Candle Power Spotlight

1-Mile Beam

- Built-in 6V rechargeable battery
- Computer designed parabolic lens
- Provides up to 25 minutes of continuous operation



- Powerful halogen bulb provides brilliant beam across 1 mile • Size: 6.2" diameter housing
- Includes wall adapter (7.5VDC@400mA with 2.1mm x 5.5mm center positive) and auto adapter for charging battery • Weight: 4.7 lbs.

Part No.	Description	1	10	25
173315	Cordless spotlight	$29.95	$26.95	$23.95

GE AA Flashlight

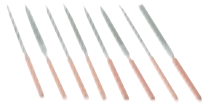


- Black hard plastic body
- Requires (2) AA batteries
- Size: 6.0"L x 0.9" D • Wt: 0.1 lbs.

Part No.	Description	1	10	100
159812	GE flashlight	$2.95	$2.49	$.99
151087	AA batteries	.39	.32	.19

8 Piece Steel File Set

- (1) 0.15"Dia. x 5.65"L
- (1) 0.13"Dia. x 5.65"L
- (4) 0.22"Dia. x 5.65"L
- (1) 0.12"Dia. x 5.65"L
- (1) 0.11"Dia. x 5.65"L



- Material: tool steel • Weight: 0.2 lbs.

Part No.	Product No.	Description	1	10
100360	FS108F	8 piece file set	$8.95	$7.95

4 Piece Alignment Tool Set

- Includes 4 plastic alignment tools with multiple functions
- Flat screwdriver function & hex • Weight: 0.1 lbs.



Part No.	Product No.	Description	1	10	25
99637	ATS606	4 piece tool set	$3.95	$3.49	$2.95

Deluxe Precision Knife Set

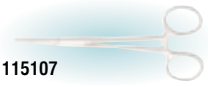
- Three different knife handles – fine work, medium and heavy duty power grip
- 13 different types of blades included • Weight: 0.4 lbs.
- Size: 6.3"L x 2.8"W x 1.4"H



Part No.	Description	1	10	25
72768	13 blade knife set	$7.95	$6.95	$5.95

5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions


115107

- Available with straight or curved tip • Weight: 0.1 lbs.

Part No.	Product No.	Description	1	10	25
115107	HEMO1	5" straight	$3.95	$3.49	$2.95
115115	HEMO2	5" curved	3.95	3.49	2.49

JAMECO Electricians Scissors Tool

Two notches for stripping 19 and 24 AWG

- Stainless steel
- Sharp edge inside blade for cutting
- Serrated edge outside blade for stripping
- Size: 5.2"L
- Weight: 0.2 lbs.



Part No.	Description	1	10	25
175978	Electricians scissors	$9.95	$8.95	$7.95

JAMECO Magnetizer / Demagnetizer Tool

Perfect for Small Tools

Convenient pocket size tool, housed in strong plastic case. Ideal for general magnetizing and demagnetizing small hand tools. Open slots for magnetizing and demagnetizing function.



• Size: 2.0"L x 2.0"W x 1.0"H • Weight: 0.2 lbs.

Part No.	Description	1	10	50
175960	Magnetizer tool	$4.95	$4.49	$3.95

JAMECO IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.



- Includes a ground terminal
- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Color/materials: black plastic
- Size: 3.3"L x 1.5"W x 0.4"H • Weight: 0.1 lbs.

Part No.	Description	1	10	100
99362	IC straightener	$5.95	$5.35	$4.95

CK Strip-Wrap-Unwrap Tools

- Strips, wraps, unwraps
- Tool tip made of tempered steel


34577

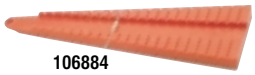
- Use with 30 AWG wire on .025" square posts
- No solder necessary (see pg 63 for wire)
- Spring steel cutter • 4.5" long • Weight: 0.04 lbs.

34585: • Wrap 1 to 2 turns of insulated portion of wire for secure connections • Modified tool

Part No.	Product No.	1	10	25
34577	WSU30	$24.95	$22.49	$19.95
34585	WSU30M	26.95	23.95	21.49

Resistor Lead Forming Tools

- Watt size indicates appropriate package size


106884

- Bends lead length in .05" increments
- Excellent for capacitors • Weight: 0.05 lbs.

106884: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"; 5.4"L x 1.5"W

133938: 1W: 0.8"-1.4"; 2W: 0.9"-1.9"; 5.4"L x 1.8"W

Part No.	Product No.	Description	1	10	50
106884	RLF801	1/4-1/2W	$2.95	$2.49	$2.25
133938	RLF802	1-2W	3.95	3.49	2.95

JAMECO Glue Gun and Sticks

- Will adhere to PCBs, cardboard, wires and metal
- Silicon nozzle
- Electronic heating system
- UL/CSA listed
- Automatic trigger action
- Utilizes long glue sticks (100mm – 6/pk)
- Size: 7.3"L x 6.3"W • Weight: 0.8 lbs.

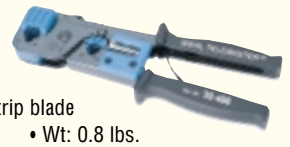

72696

176292: 11.2mm Dia. (10/pk)

Part No.	Description	1	10	25
72696	Glue gun	$9.95	$8.95	$7.95
78633	Glue sticks (6/pk)	2.95	2.49	1.95
176292	Glue sticks (10/pk)	4.95	4.49	3.95

Telemaster Crimp/Cut/Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs



- Repeatable crimp action for consistent high quality connectors
- Includes cut and strip blade
- Size: 6.0"L x 2.0"W • Wt: 0.8 lbs.

Part No.	Product No.	Description	1	10
161091	ID30-496	Telemaster tool....	$44.95	$39.95

Standard T5 & T6 Wire Strippers

Quality built strippers feature looping holes, built-in wire cutters, cushioned plastic grips and precision knife-type blades for an accurate easy strip every time.



- Size: 6.0"L x 2.0"W • Weight: 0.3 lbs.

P/N 161200: T-5 • 10-18 AWG solid • Color: yellow
P/N 161218: T-6 •16-26 AWG stranded • Color: red

Part No.	Product No.	Description	1	10
161200	ID45-120	T-5 10-18 AWG ...	$11.95	$10.95
161218	ID45-121	T-6 16-26 AWG	11.95	10.95

Premium T5 & T6 Wire Strippers

Precision form ground knife-type blades.
Easy to see painted wire gauge markings.
Versatile plier-type nose.



- Cushion grips
- Size: 6.0"L x 2.0"W
- Weight: 0.3 lbs.

161226: T-5
- 10-18 AWG solid
- Color: yellow

161234: T-6 • 16-26 AWG stranded • Color: red

Part No.	Product No.	Description	1	10
161226	ID45-215	T-5 10-18 AWG ...	$14.95	$13.49
161234	ID45-216	T-6 16-26 AWG	14.95	13.49

Ratchet Telemaster Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs



- Repeatable crimp action for consistent high quality connectors
- Includes cut and strip blade
- Size: 6.0"L x 2.0"W • Weight: 1.2 lbs.

Part No.	Product No.	Description	1	10
161103	ID30-696	Ratchet tool.....	$54.95	$49.95

Telecom Termination Kit

For RJ45/11 2, 4, 6 & 8 Position Combination



Kit includes:
- Telemaster for RJ11/45 modular plugs
- 15 each 4 and 6 position RJ11 stranded modular plugs
- 15 each 8 position RJ45 stranded modular plugs
- Size: 11.0"Lx 8.0"W x 2.0"D • Weight: 2.0 lbs.

Part No.	Product No.	Description	1	10
161146	ID33-704	Termination kit	$69.95	$62.95

LinkMaster™ Tester



- Quickly and reliably tests twisted pair cable
- Checks continuity and configuration
- Tests for open circuits, shorts, miswires, reversals and split pairs
- Separate debug mode for fault and pair identification
- Master and remote unit enables one-person testing
- Remote unit has a T568A/B wiring chart
- Tests all common data wiring configurations
- Shield detection feature tests cable shield integrity
- Tests patch cords over eighteen inches in length
- Six-volt battery installed in main unit
- LED illuminates when battery replacement is necessary
- Size: 3.3"L x 2.0"D x 1.3"H • Weight: 1.2 lbs.

Part No.	Product No.	Description	1	10
164902	ID62-200	LinkMaster™.....	$99.95	$89.95

JAMECO Crimp / Cut / Strip Tool

For RJ11 (6P) and RJ45 (8P) Modular Plugs



- Repeatable crimp action for consistent high quality connectors
- Push down locking mechanism
- Includes cut and strip blade
- Size: 8.0"L x 2.0"W • Weight: 0.8 lbs.

Part No.	Product No.	Description	1	10
174684	TTK071	Crimp tool.....	$29.95	$26.95

JAMECO Auto Wire Stripper Tool



- Automatic wire stripper
- Strips 8, 10, 12, 14-16, 18-20, 22 AWG wires
- Spring load grip
- Includes wire stopper for desired strip length
- Size: 7.0"L x 2.5"W
- Weight: 0.8 lbs.

Part No.	Description	1	10	25
175097	Auto wire stripper ...	$14.95	$13.49	$11.95

JAMECO Ratchet Crimp Tool

For RJ-11 (6P) and RJ45 (8P) Modular Plugs



- Repeatable crimp action for consistent high quality connectors
- Includes cut and strip blade
- Size: 8.5"L x 2.2"W • Weight: 1.2 lbs.

Part No.	Product No.	Description	1	10
174676	TTK070	Ratchet tool	$34.95	$31.49

Crimping Tool Kit with Stripper

For RJ11 (4 and 6 position) and RJ45 (8 position)



- Spring loaded modular crimping tool for RJ11 and RJ45
- Wire stripper for solid and stranded Cat. 5 wires
- 15 each of RJ11 (4 and 6 position) stranded modular plugs
- 15 each RJ45 (8 position) solid modular plugs
- 15 pieces (3 piece each of black, white, gray, red, blue) rubber boots for modular plugs
- Includes black plastic case
- Size: (case) 11.0"L x 7.8"W x 2.5"Thick • Wt.: 2.2 lbs.

Part No.	Product No.	Description	1	10
175484	TTK220	Crimping tool kit....	$59.95	$53.95

JAMECO Electrical Tester Set



- Wire stripper and cutter (10-24 AWG)
- Heavy duty circuit tester (90-300 VAC/DC)
- 10 pcs. yellow wire nuts (14-22 AWG)
- 10 pcs. red wire nuts (10-18 AWG)
- Durable plastic case
- Weight: 0.9 lbs.
- Size: 12.0"L x 6.5"W x 1.5"H

Part No.	Description	1	10	50
153197	Tool and tester set.....	$2.95	$2.65	$2.35

8 Piece Insertion and Extraction Tool Kit



- Six IC insertion tools for: 8, 14/16, 18/20, 22, 24/28 and 32/40-pin ICs
- Universal extraction tool with insulated handle
- Black vinyl carrying case with zipper
- Size: 7.8"L x 5.0"W x 1.5"H
- Weight: 0.6 lbs.

Part No.	Description	1	10	25
104707	Insertion/extraction kit	$17.95	$15.95	$13.95

15 Piece Computer Service Tool Kit



- Anti-static wrist strap
- 8 and 20-pin IC inserters
- IC extractor
- Screwdriver handle with 3.75" extender and adapters: (3) Phillips: #0, #1 #2; (3) slotted: 1/8", 3/16", 1/4"; (2) nut driver: 3/16", 1/4"; (2) torque: T-10, T-15
- (2) tweezers: straight, angled
- Probe (logic & voltage ±) • Black vinyl carrying case
- Size: 9.0"L x 5.8"W x 1.3"H • Weight: 1.9 lbs.

Part No.	Description	1	10	25
14171	Computer tool kit.....	$34.95	$31.49	$27.95

20 Piece SAE Computer Tool Kit



- 30W soldering iron
- 6' solder
- 8" wire cutter/stripper
- 5" needle nose pliers
- 6" adjustable wrench
- (3) slotted screwdrivers (1/4", 3/16" and 1/8")
- (3) phillips screwdrivers (#0, #1 and #2)
- (2) nut drivers (1/4" & 3/16")
- Chip extractor
- Reversible TORX screwdriver (T10/T15)
- Tweezers/pincher • Clamping tweezers
- 3-pronged parts retriever • Spare parts tube
- Flashlight with battery • Heavy duty molded case
- Size: 11.9"L x 9.2"W x 2.0"H • Weight: 3.5 lbs.

Part No.	Description	1	10	100
170966	Computer tool kit....	$24.95	$22.49	$19.95

Computer Service Tool Kits

- (2) Slotted screw-drivers: 1/8", 3/16"
- (2) Phillips screw-drivers: #0, #1
- (2) Nut driver: 3/16", 1/4" • (1) Tweezers
- (1) 3-claw parts holder • (1) 14-40 pin IC extractor
- Black vinyl carrying case

167206: 11 Piece Tool Kit

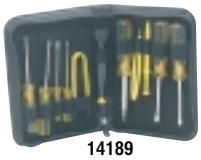
- (1) T-15 torque screw
- (1) Clear components tube holder
- Size: 8.5"L x 5.9"W x 1.3"H
- Weight: 1.1 lbs.



167206

14189: 12 Piece Tool Kit

- (1) Reversible handle with (1) T10/T15 torque bit
- (1) 14-16 pin IC inserter/straightener
- Size: 9.0"L x 5.8"W x 1.3"H
- Weight: 1.2 lbs.



14189

Part No.	Description	1	10	25
167206	11 piece tool kit	$12.95	$11.49	$9.95
14189	12 piece tool kit	14.95	13.49	11.95

JAMECO 26 Piece Tool Kit

Excellent Kit for Electronics Repair and Maintenance!



See matrix below for list of tools.

- 2-in-1 carrying case has separate pocket to carry documents
- Weight: 7.0 lbs.
- Size: 16.0"L x 12.0"W x 4.0"H

Part No.	Description	1	10	25
135968	26 piece tool kit	$69.95	$62.95	$56.95

JAMECO 55 Piece Tech Tool Kit



An assortment of tools for general and precision work for technicians, engineers, students, etc.

- In addition to the tools listed (see matrix below), the kit includes:
  - 8" lineman's pliers
  - screwdriver handle
  - 6 piece mini-hammer set
  - 5 piece of double edge blade
- Carrying case has outer velcro pockets to store paperwork, etc.
- Complete your assortment with a multimeter (see pages 129-135)
- Case size: 17.6"L x 12.8"W x 4.0"H • Wt.: 9.2 lbs.

Part No.	Description	1	5	10
136311	55 piece tool kit	$119.95	$107.95	$96.95

JAMECO 26 Piece SAE Hobby Tool Set



- 4 1/2" long nose pliers
- 4 1/2" diagonal cutting pliers • Tweezers
- Driver handle
- #1 and #2 Phillips bits
- #1 and #2 pozi bits
- 3/16" and 1/4" slotted bits • Hex to 1/4" driver adapter
- T-10, T-15, and T-20 torx bits
- 3" extension bar for 1/4" drive
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" (1/4") drive sockets
- Compact carrying case • Weight: 1.5 lbs.

Part No.	Description	1	10	25
170069	26 pc. SAE tool set	$17.95	$15.95	$12.95

JAMECO 40 Piece Tool Kit



Includes: IC inserter with pin straightener, IC extractor, extra long 3-claw parts holder, slotted and Phillips screwdriver bits, metric nut driver sockets (6mm-12mm), S.A.E. nut driver sockets (3/16"-1/2"), reversible torque-screwdriver bits (T10-T25), potentiometer alignment tools, adapter bit for sockets, wire cutters and stripper and pocket clip screwdriver.

- Zipper vinyl case
- Size: 9.5"L x 6.8"W x 1.4"H • Weight: 1.7 lbs.

Part No.	Description	1	10	25
119183	40 piece tool kit	$19.95	$17.95	$15.95

JAMECO 66 Piece Tech Tool Kit

Comprehensive Kit for Field Technicians and Engineers!



Aluminum case features removable pallets, surface-type locks, a black plastic handle, side buckles and a strap. See matrix below for list of tools.

- In addition to the tools listed (see matrix below), the kit includes:
  - 8" lineman's pliers
  - cassette head cleaning fluid
  - hobby vice
  - keyboard/monitor spray cleaner
  - mini vacuum cleaner
  - long nose pliers with cutter
  - multimeter (digital)
- Size: 18.0"L x 14.0"W x 6.0"H • Weight: 15.5 lbs.

Part No.	Description	1	5	10
105646	66 piece tool kit	$179.95	$164.95	$149.95

JAMECO 26 Piece Metric Hobby Tool Set



SALE

- 6 screwdrivers (Phillips #0, #1, slotted 0.05", 0.08", 0.09", 0.12")
- 10 bits: 5, 6mm #No.1, #No.2, No.1, No.2, T-10, T-15, T-20, socket adapter
- Extension bar • Handle
- Stainless steel tweezers • Sockets: 5, 6, 8, 10mm
- 4" long nose pliers • 4" side cutter
- Plastic carrying case • Weight: 1.2 lbs.

Part No.	Description	1	10	25
99629	26 piece tool set	$16.95	$14.95	$13.49

JAMECO 51 Piece Machine Tool Kit

Essential Kit for Electronic Machine Maintenance and Repair Jobs!



See matrix below for list of tools. Also includes digital multimeter. Case features removable pallets, a combination lock and a cushioned, black plastic handle.

- Weight: 10.4 lbs.
- Size: 12.5"L x 17.5"W x 3.5"H

Part No.	Description	1	5	10
26681	51 piece tool kit	$99.95	$89.95	$80.95

69 Piece Professional Electronic and Computer Service Tool Kit



- In addition to the tools listed (see matrix below), the kit includes:
  - 40 pc. socket pack (8PK-227)
  - 3 piece trimmer set
  - carpenter hammer
  - stainless steel sping hook
  - 2 pc. removable pallets
  - 6" long nose plier
  - 8" combination plier
  - 6" side cutter
  - 6" slip joint plier
  - solder wick
- Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

Part No.	Description	1	5
149024	Professional jumbo tool kit	$219.95	$199.95

Parts included in kits	105646	26681	136311	135968	149024
3-piece soldering aid kit	1	1	1		1
3-prong holder	1		1		1
5-way crimping tool	1		7-way		1
6 precision screwdrivers	long	short	1		1
7-piece hex key wrench		1	1	1	1
10 foot measuring tape		1		1	1
10-piece mini wrench set	1(SAE)				1
30 watt soldering iron	1	1	1	1	1
Adjustable wrench	1	1	1	1	1
Anti-static strap	1		1		1
Bent needle nose pliers		1	1		1
Brush	1	1	1		1
Brush and scraper					
Carrying case	1	1	1	1	1
Desoldering pump	1	1	1	1	1
Diagonal cutting pliers	1	1	1	1	1
Electrical test screwdriver	1			1	
Electrician's tape	1	1			1
Fine point probe					

Parts included in kits	105646	26681	136311	135968	149024
Flat nose pliers	1	1	1	1	1
Forceps					1
Heat sink			1		1
Heavy-duty utility knife	1	1	1	1	
IC extractor	1		1	1	1
Inspection mirror					1
Mini drill	1				1
Mini flashlight	1		1		1
Needle files	5	2	5		5
Needle nose pliers	1	1	1	1	
Precision wire stripper					1
Rosin core solder	1	1	1	1	1
Screwdriver set (*Pro-soft)	13-pc	10-pc	2-pc	6-pc	9-pc*
Slotted probe					
Snipe nose pliers					1
Soldering stand	1	1			
Stainless steel scissors	1	1			
Tweezers	1	1	2	1	
Utility components box	1	1			1

JAMECO® 150 Watt Digital Benchtop Power Supply

30VDC @ 5A



- Output voltage: 0-30VDC
- Output current: 0-5A
- Constant voltage and current operation
- Power requirements: 110/220VAC @ 50/60Hz (switch selectable)
- Color coded terminals for positive, negative and ground connections • 2A @ 250V fuse
- LED displays for both current and voltage
- Coarse and fine adjustment knobs for current and voltage • Dual digit display
- Please select input voltage to appropriate line voltage
- Size: 5.4"W x 10.7"D x 6.0"H
- Weight: 13.8 lbs. • One-year warranty

Part No.	Description	1	10	25
153242	30VDC @ 5A	$189.95	$169.95	$152.95

JAMECO® 150 Watt Power Benchtop Power Supply

50VDC @ 3A



- Output voltage: 0-50VDC
- Output current: 0-3A
- Constant voltage and current operation
- Power requirements: 110VAC @ 60Hz
- Color coded terminals for ground, positive and negative terminals
- 3A @ 115V fuse
- Color coded adjustment knobs for voltage, current and fine adjustment • Color: black
- Weight: 12.3 lbs. • One-year warranty

Part No.	Description	1	10	25
163723	50VDC @ 3A	$129.95	$116.95	$104.95

JAMECO® 250 Watt Bench Top Power Supply

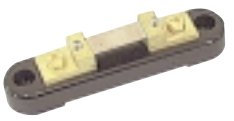
50VDC @ 5A



- Output voltage: 0VDC to 50VDC
- Output current: 0–5A
- Constant voltage and current operation
- Power requirements: 220VAC @ 50-60Hz
- 5A @ 250V fuse
- Isolated ground
- Color coded terminals for ground, positive, negative
- Color coded adjustment knobs for voltage, current, and fine tuning
- Color: dark gray
- Size: 4.9"L x 7.7"W x 6.7"H • Weight: 13.8 lbs.

Part No.	Product No.	1	10	25
175249	DPS5050	$149.95	$134.95	$119.95

JAMECO® 50mV/50A Current Shunt



- Current range: 0 to 50A
- Accuracy: 0.8% ±0.2mV
- Output ratio: 1mV/1A
- Applications: laboratory measurement of current between two points • Max. current: 100A
- Size: 5.3"L x 1.2"W x 1.4"H • Weight: 0.3 lbs.

Part No.	Description	1	10	25
162309	Current shunt	$24.95	$22.49	$19.95

JAMECO® 225 Watt Bench Top Switching Power Supply

15VDC @ 15A



- Output voltage: 9VDC to 15VDC
- Output current: 25A max. (22A continuous @ 13.8VDC)
- Constant voltage and current operation
- Over voltage protection @ 16.5V
- Short circuit protection @ 27.5A
- Power requirements: 110VAC/220VAC @ 47-63Hz (switchable)
- Color coded adjustment knob and output terminals for voltage
- Cigarette plug for current output
- Power and fan LED indicator • Built-in fan
- Voltage and current panel meter
- Size: 5.6"L x 6.2"W x 4.0"H • Weight: 3.8 lbs.

Part No.	Product No.	1	10	25
175257	SPS250A	$129.95	$116.95	$104.95

JAMECO® 150 Watt Bench Top Linear Power Supply

15VDC @ 10A



- Output voltage: 2VDC to 15VDC
- Output current: 15A maximum
- Constant voltage and current operation
- Power requirements: 110VAC @ 50Hz
- Color coded terminals for positive and negative terminals, voltage adjustment knob
- Over voltage, over current, short-circuit protection
- Cigarette output current plug • Built-in fan
- Led indicator for power and warning
- Current and voltage panel meter
- Size: 5.7"L x 6.2"W x 4.0"H • Weight: 12.0 lbs.

Part No.	Product No.	1	10	25
175265	DPS150A	$129.95	$116.95	$104.95

JAMECO® Mini DC/AC Current Clamp Meter



- Bright 1/2" LCD display with DATA HOLD
- 0.5" digit height
- Complete with test leads, manualand case
- Compatible with P/N 162325 (above right)
- Size: 7.1"L x 1.9"W x 1.4"H

Specifications	Range	Accuracy
ACA*	20A, 200A	±1.2% + 5d
DCA	200A	±1.2% + 5d
ACV*	500V	±1% + 2d
DCV	200V	±0.8% + 1d
Resistance	200Ω	±1.2% + 1d
*Frequency Response		40-400Hz
Zero Adjust	External knob for DCA	

- Requires 9V battery not included (P/N 151095, pg 74)
- Weight: 0.9 lbs. • One-year warranty

Part No.	Description	1	10
115756	Mini DC/AC clamp meter	$109.95	$89.95

EXTECH INSTRUMENTS 15A AC Line Separator



- X1 and X10 clamp areas
- Size: 6.0"L x 2.1"W x 1.1"H
- 15 amp max.
- Weight: 0.4 lbs.
- One-year warranty

Part No.	Description	1	10	25
119589	3-prong separator	$14.95	$12.95	$11.95

MASTECH 15A AC Line Separator

3-Prong US Connector Type Plug



- Maximum overload: 250VAC @ 15A
- X1 and X10 clamp areas for measuring current
- Convenient 0.1"Dia. meter tip test points for neutral/earth/line
- Compatible with P/N 115756 (below left)
- Output socket compatible with US and European 3-prong power connectors
- Size: 6.0"L x 1.9"W x 1.4"Thick
- Weight: 0.4 lbs. • One-year warranty

Part No.	Description	1	10
162325	3-prong separator	$11.95	$9.95

- Reconditioned • 90-day warranty
- Operation specification manuals & accessories included

HEWLETT PACKARD General Purpose DC Power Supply



Reconditioned

While Supplies Last

- Constant voltage/ current operation
- Remote sensing and programming
- Auto-series, -parallel, & -tracking operation
- Floating output – use as positive or negative source • Size: 8.3"W x 17.1"D x 5.2"H

Part No.	Product No.	Output Volts	Output Amps	Wt. (lbs.)	Price
156380	HP6291A	0-40	0-5	35	$549.95

HEWLETT PACKARD 100MHz Logic Analyzer



Reconditioned

While Supplies Last

- 80 channels of 35MHz state/ 100MHz timing
- Configurable analyzer: one state, two state, state/timing
- State sequency: 8 levels
- Broad support for microprocessors, busses and interfaces • Memory: 1Kbit/channel
- Size: 16.6"W x 14.0"D x 7.7"H • Weight: 32.0 lbs.

Part No.	Product No.	Price
156304	HP6291A	$3499.95

Information at Your Fingertips

Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

All TPI digital meters include test leads, batteries, instruction manual and 3-year warranty.

- Clamp meters include carrying pouch
- Multimeters include protective boot









Three-year Warranty!

Features	TPI 133	TPI 135	TPI 185*	TPI 255	TPI 296	TPI A296**
Digit Height	0.52"	0.83"	0.75"	0.45"	0.43"	N/A
Display Count	2000	4000	4000	4000	4000	N/A
AC/DC Volts	750/1000	750/1000	750/1000	600/600	600/600	N/A
Basic DC Accuracy	0.5%	0.5%	0.3%	0.3%	0.75%	N/A
AC/DC Amps	10/10	10/10	10/10	400/NA	700/700	400-1000/400-1000
HDR Mode	NA	NA	NA	NA	YES	N/A
True RMS	NA	NA	YES	NA	YES	N/A
Resistance	20MΩ	40MΩ	40MΩ	40MΩ	40MΩ	N/A
Capacitance	NA	20000µF	400µF	NA	NA	N/A
Frequency	NA	NA	200KHz	NA	10KHz	N/A
Analog Bar Graph	NA	NA	YES	NA	YES	N/A
Auto Range/Data Hold	NA/YES	NA/YES	YES/YES	YES/YES	YES/YES	N/A
Min/Max/Peak	NA	NA	(Min/Max only)	YES	YES	N/A
Sleep Mode/Auto Off	NA	NA	YES/NA	NA/YES	YES/NA	N/A
RS232 (cable & software)	NA	NA	Included	NA	NA	N/A
Dimensions (L"xW"xH")	7.75 x 3.75 x 2.25†	7.75 x 3.75 x 2.25†	7.75 x 3.75 x 2.25†	7.5 x 3.0 x 1.5	9.0 x 3.25 x 1.75	7.2 x 2.5 x 1.4
CE or cULus Listed	cULus,UL3111-1,CE	CE	cULus,UL3111-1,CE	cULus,UL3111-1,CE	cULus,UL3111-1,CE	—
Weight (lbs.)	1.7	1.7	1.8	1.2	1.2	1.1
Part Number	**162991**	**163002**	**163011**	**163029**	**163037**	**170501**
Quantity 1 / Pricing 10	**$59.95**	**$89.95**	**$179.95**	**$99.95**	**$189.95**	**$69.95**
	$53.95	**$79.95**	**$159.95**	**$89.95**	**$169.95**	**$62.95**

* with triple display ** applicable to all DMM in stock † size with protective boot

440 Scope Plus



Six Units in One!

- 4,000 count True RMS DMM
- 1MHz oscilloscope bandwidth
- Trend mode
- Logic test
- Component test
- Frequency counter
- 20MHz sampling rate
- Trend mode allows you to record sine waves for a period of time

Part No.	Description	1	5
160805	Digital oscilloscope	$289.95	$279.95
168330	RS232 software and cable	69.95	62.95
170499	Rubber boot for TPI440	19.95	17.95

Protek True RMS Digital Multimeter



- 50,000 count
- 0.05% accuracy
- RS-232C and category II 600V
- DC voltage range: (4) 5V – 1000V
- AC voltage range: (4) 5V – 750V
- DC current range: (6) 500µA – 10A
- AC current range: (3) 5000µA – 10A
- Resistance range: (7) 10Ω – 30MΩ
- Capacitance range: (7) 5nF – 5000µF
- Low power ohm function, zener/diode test, conductance mode, duty cycle and pulse width, capacitance, frequency counter mode, and go/no go testing
- Includes holster, manual, probes, RS-232 cable and software
- Size: 8.0"L x 3.5"W x 1.5"D • Weight: 1.0 lb.

Part No.	Description	1	10
177164	Digital multimeter	$299.95	$269.95

Protek Field Strength Analyzer



- Scans frequencies: 100KHz – 2060MHz
- Spectrum analyzer, bargraph, and demodulation modes
- Up to 160 channels can be scanned and displayed
- Built-in 2GHz frequency counter
- RS-232 interface with complete software for monitoring and logging data
- Ideal for cellular and pager field measurements and all types of signal monitoring
- Includes (6) AA batteries, detachable 9" whip antenna, manual, RS-232 cable, carrying care, earphone, software, power adapter, and AC/DC converter
- Size: 9.5"H x 4.0"W x 1.8"D • Weight: 1.4 lbs.

Frequency Counter:

- Bandwith: 9MHz – 2060MHz • Resolution: 1KHz
- Max. input volts: 5V rms • Input impedance: 50Ω
- Accuracy: 50PPM ±1 count

Part No.	Description	Price
177172	Field analyzer	$2099.95

Protek Sound Level Meter



- 3½ digit display
- Frequency range: 30 – 12KHz
- Dynamic range: 70dB
- Meets ANSI and IEC 651 type 2 standards
- Data hold and internal calibration check
- Input: condensor microphone
- Includes manual, battery, adjustment screwdriver and carrying case
- Size: 9.5"L x 2.7"W x 1.0"D • Weight: 0.5 lbs.

Part No.	Description	1	10
177148	Sound meter	$229.95	$206.95

Protek LCR Meter



- Automatically measures capacitors ranging from 0.001p*f* to 99999µ*f*; resistors from 0.00001Ω to 2000MΩ; and inductors from 0.0001µH to 99999H
- Over 15 orders of magnitude with basic accuracy of 0.05%
- Displays dissipation factor and has RS-232 interface
- Test frequencies: 100Hz, 120Hz, 1KHz, 10KHz, 100KHz
- AC voltage inut: 120/220 volts Hz
- Power consumption: 20 watts • Frequency: 50/60Hz
- Operating temperature: 0 – 50˚C
- Includes manual, line cord, and axial lead adapter
- Size: 4.3"H x 14.3"W x 14.5"D • Weight: 12.8 lbs.

Part No.	Description	Price
177181	LCR meter	$1749.95

Protek Photo and Contact Tachometer



- Speed readings of moving equipment may be made by direct contact or by pointing at object • 5 digit display
- Measures RPM and surface speed
- Ideal for industrial maintenance, automotive service, and education
- Photo tachometer range: 0.5 – 99,999 rpm
- Contact tachometer range: 5 – 20,000 rpm
- Operating temperature: 0 – 50˚C
- Includes manual, RPM adapters, surface speed test wheel, and case
- Size: 6.7"H x 2.8"W x 1.5"D • Weight: 0.5 lbs.

Part No.	Description	1	10
177156	Photo/contact tachometer	$239.95	$215.95

Velleman Digital Hand-held 5MHz Sampling Rate Oscilloscope



- Maximum sampling frequency: 5MHz for repetitive signals; 0.5MHz for single shot events
- Input impedance: 1MΩ/20pF (standard oscilloscope probe)
- Maximum input voltage: 100V peak (AC + DC)
- Input coupling: DC, AC, and GND (GND for auto zero reference) • Linearity: ±1 bit
- LCD graphics display: 64 x 128 pixels (64 x 96 pixels for signal)
- High contrast LCD display w/ 3.3" viewing angle
- Vertical resolution: 8-bit (6-bit for LCD)
- Timebase range: 2µs to 20s/div
- Input sensitivity: 5mV to 20V/div
- Trigger mode: run; normal; once, and ± slope
- True RMS and dB measurements
- Screen hold function • Auto power off or continuous on
- Recommend 9VDC @ 300mA power supply (P/N 133891, pg 87) • Includes insulated BNC to alligator clip measurement probes and case
- Batteries not included, recommend P/N 32627 or P/N 151087 (pg 74)
- Size: 8.7"L x 4.2"W x 1.5"H • Weight: 1.6 lbs.

Part No.	Description	1	10
168823	5MHz scope (Model HPS5)	$199.95	$179.95

BelMERIT 3½-Digit Multimeter



- 0.7" digit height
- Large 3½-digit liquid display (LCD) readout with function and range annunciators, .25% basic accuracy
- DC/AC current range: 200µ-10A
- Voltage range: 200m-1000VDC, 200m-750VAC
- Resistance range: 200-20MΩ
- Capacitance range: 2n-20µF
- Frequency range: 2K-20MHz
- Input protection to 500vrms, DC/AC 10A fuse protection • 10 functions and 39 ranges
- Data hold function and input warning beeper
- Includes standard 9V battery, test leads, manual and deluxe holster • Auto power off
- Size: 3.9"W x 2.3"D x 8.0"H • Weight: 1.5 lbs.
- Three-year manufacturer's warranty • CE approved

Part No.	Product No.	Description	1	10
141250	DX405	3½-digit meter	$69.95	$62.95

BelMERIT 3½-Digit Multimeter
TTL and CMOS logic testing capabilities



- 0.7" digit height
- 12 function with 44 ranges
- Automatic power off
- Transistor hfe for NPN and PNP
- DC/AC current to 10A fuse protected
- AC voltage: 200m, 2, 20, 200, 750V
- DC voltage: 200m, 2, 20, 200, 1000V
- AC/DC current: 200µ, 2m, 20m, 200m, 2, 10A
- Data and peak hold
- Capacitance: 2n, 20n, 200n, 2µ, 20µF
- Frequency: 2K, 20K, 200K, 2M, 20MHz
- Resistance: 200, 2K, 200K, 2M, 20M, 2000MΩ
- Includes 9V battery
- Size: 3.9"W x 2.3"D x 8.0"H • Weight: 1.5 lbs.
- Three-year manufacturer's warranty

Part No.	Product No.	Description	1	10
140273	DX451	3½-digit meter	$79.95	$71.95

BelMERIT 3½-Digit Multimeter
LCR, Logic and Frequency Test



- 0.7" digit height • Auto power off
- 12 functions & 43 measuring ranges
- Input warning beeper and 10MΩ impedance • Data and peak hold
- AC voltage: 200mV - 750V
- DC voltage: 200mV - 1000V
- Resistance: 200Ω - 20MΩ
- Frequency: 2KHz - 20MHz
- Capacitance: 20nF - 2000µF
- Inductance: 20mH - 20H
- AC/DC current: 200µA - 10A (protected by fuse)
- Continuity test and diode test, TTL and CMOS logic test
- Includes manual, test probes and 9V battery
- Size: 4.0"W x 1.5"D x 8.0"H • Weight: 2.7 lbs.
- Three-year manufacturer's warranty • CE approved

Part No.	Product No.	Description	1	10
147096	DX460L	3½-digit meter	$99.95	$89.95

BelMERIT 3½-Digit Tester
Capacitance and Resistance



- Large 0.7" LCD display
- Capacitance: 200pF - 20mF
- Resistance: 20Ω - 2000MΩ
- Dual zeroing knobs (C & R)
- Continuity beeper & diode
- Test leads w/ clips • Weight: 0.7 lbs.
- Size: 6.5"H x 3.1"W x 1.7"D
- One-year manufacturer's warranty

Part No.	Product No.	Description	1	10
166828	CM215	3½-digit tester	$59.95	$54.95

BelMERIT Digital Clamp Meter



- 3¾-digit, liquid displays(LCD) with a maximum reading of 1999 and 4000 count LCD screen with annunciators
- Current range: 400A, 600A (AC)
- Voltage range: 750VAC, 400VDC
- Resistance range: 4000Ω • 0.5" digit height
- Tear drop jaws 1.3" (32mm) opening for ease of use
- Electronic overload protection up to 500VAC and DC on all ranges • Data hold function and peak hold function
- Includes standard 9V battery test leads, manual & case
- Size: 8.0"L x 3.3"W x 1.5"D • Weight: 1.0 lb.
- One-year manufacturer's warranty

Part No.	Description	1	10
140644	Digital clamp meter	$79.95	$71.95

JAMECO PC Cable Tester
Multimedia, USB, SCSI



Control Panel & SCSI Tester



Interface Unit

- Complete testing interface for PC, multimedia, and USB cables
- Integrates with the SCSI and ribbon cable tester
- Tested ports: (2) DE9 male and female; (2) HDDB15 male and female; (2) DB25 male and female; (2) Centronics 36-pin male and female; (2) 4-pin mini DIN female; (2) 5-pin DIN male and female; (2) 6-pin mini DIN male and female; (2) RCA female jacks; (2) RJ45 8P8C modular jacks; (2) audio jacks; (2) USA type A female; (2) 50-pin half pitch female; and (2) 68-pin half pitch female connectors
- Power requirements: 9V battery (recommend P/N 151095 pg 74) or 9VDC adapter (recommend P/N 100845 pg 87) • Includes manual, (1) 5-pin DIN male to male adapter cable, (1) 6-pin mini DIN male to male adapter cable, and (2) 40-pin IDC cables
- Size (SCSI tester): 6.9"L x 5.1"W x 1.5"H
- Size (Interface unit): 9.7"L x 5.4"W x 1.4"H

Part No.	Description	Wt. (lbs.)	1	10
175513	Cable tester	5.1	$399.95	$359.95

JAMECO LAN Tester with Remote



Can easily read correct pin configuration of 10baseT, 10base2, RJ45/RJ11 modular cables,258A,TIA568A/568B, token ring, etc. Test cables installed from a distance either on wall plate or patch panel.

- Check for cable continuity, miswiring, open, short, grounding and pin configurations • CE approved
- Includes manual, zipper case and test cable(s)
- Cable adapters: RJ45 M-M, (2) RJ45M-BNCM and BNC F-F
- On-board connectors: (2) RJ45F (tester) and (1) RJ45F (remote)
- Size: 4.0"L x 2.5"W x 1.0"H (Main console)
- Size: 4.0"L x 1.3"W x 1.0"H (Remote)
- Weight: 0.7 lbs. • One-year warranty

Part No.	Description	1	10
145710	LanTest cable tester	$79.95	$71.95

JAMECO Ethernet Cable Tester



- Connector type: RJ45 8P8C
- System used: 258A, 356A, AT&T/Ethernet 10BaseT
- Test performed: miswire, open, short
- Zipper case included
- Requires 9VDC battery (not included)
- Size 4.5"L x 2.5"W x 1.3"H • Weight: 0.4 lbs.

Part No.	Description	1	10
115895	Network Cat. 5	$22.95	$19.95

BelMERIT Cable Tester UTP, STP, and Coaxial Cables



- Detects opens, shorts, and cable distance
- Measures distance to the open or short on the cable • 0.7" digit height
- Tests 50Ω coaxial cable (RF or LAN cable), 75Ω coaxial cable (VIDEO or cable TV), 100Ω UTP shielded or unshielded cable (LAN)
- Dist. range: 50Ω/75Ω coax cable: 4–984 ft.
- Dist. range: 100Ω twisted pair cable with RJ45 jack: 4–328 ft.
- Dist. range: 100Ω twisted pair bare wire with alligator clip: 4–984 ft.
- Distance resolution: 1 ft.
- Accuracy: open (±7% +4 ft.); short (±10% +4 ft.)
- Includes manual, alligator clip to BNC adapter (7"L), carrying case, and 4 AA alkaline batteries
- Size: (unit) 7.0"L x 2.8"W x 1.2"H • Weight: 1.5 lbs.

Part No.	Description	1	10
171352	UTP/STP/coax	$169.95	$152.95

Paladin Tools PC Cable-Check™ Tester



Check many different types of cables. It tests standard computer cables for open, shorted and cross-connected wires. In addition, PC Cable-Check™ tests any combination of D-sub 9-pin, D-sub 15-pin, D-sub 25-pin, Centronics 36-pin printer plus RJ11 and RJ45 telephone plugs. RG58, RG59 and RG62 BNC connections with pass or fail diagnosis clearly shown on LED readout.

- Includes battery and manual • One-year warranty
- Size: 9.3"L x 5.5"W x 1.8"H • Weight: 1.7 lbs.

Part No.	Description	1	10
123916	PC cable-check™	$149.95	$134.95

JAMECO® RJ11 Cable Tester



- Tests RJ11 cables for continuity, miswiring, reverse wiring, and straight through wiring
- 2 connectors for RJ11 type (6P6C)
- LED indicators for single, double, or triple pair wires
- LED off for open wiring, red indicator for crossed pins, and green indicator for straight through pins
- Requires 9V battery (recommend P/N 151095, pg 74)
- Includes instruction sheet and leather case
- Size: 4.1"L x 2.5"W x 1.0"H • Weight: 0.3 lbs.

Part No.	Description	1	10
181163	RJ11 cable tester	$19.95	$17.95

JAMECO® Breakout Box



- Connector type: RJ45 8P8C
- System used: Ethernet 10-base-T, IBM token ring, EIA/TIA (T568A), AT&T (T568B)
- Test performed: Transmission signal, status access
- Includes zipper case
- Size: 4.5"L x 2.5"W x 1.3"H • Weight: 0.4 lbs.

Part No.	Description	1	10
115879	Breakout box	$29.95	$26.95

BK PRECISION Function Generator

0.5 to 5MHz



Unit has been engineered for high reliability and user operating convenience.

- Waveforms: sine, square, triangle, TTL/CMOS output, and ramp
- Variable duty cycle
- Coarse and fine tuning
- Size: 10.4"W x 11.7"D x 3.4"H
- 100% DC offset
- Digital display
- Two-year warranty
- Weight: 6.2 lbs.

Part No.	Product No.	Description	1	5
160469	BK4011	0.5 to 5MHz	$314.95	$299.95

BK PRECISION Analog Multimeter



- AC/DC voltage to 500V
- DC current to 250mA
- Resistance to 1MΩ
- 9V & 1.5V battery test
- Easy-to-use manual range selection
- Decibel measurements up to 56dB • CE approved
- IEC 1010-1 Cat II 300V
- One-year warranty • AA battery included
- Size: 3.2"W x 1.2"D x 4.7"H • Weight: 0.4 lbs.

Part No.	Product No.	Description	1	10
160506	BK117B	Analog meter	$18.95	$16.95

JAMECO® Digital LCR Meter



- 3½-digit display (0.5" digit height)
- Measures inductance: 0.1µH to 200H
- Measures capacitance: 0.1p*f* to 2000µ*f*
- Measures resistance: 1mΩ to 20MΩ
- Dissipation factor measurement
- Includes test-leads and 9V battery
- Size: 6.7"L x 3.3"W x 1.4"D • Weight: 1.1 lbs.
- One-year warranty

Part No.	Description	1	10	25
127538	LCR meter	$139.95	$124.95	$112.95

BK PRECISION Sine/Square Wave Audio Generator

20Hz-150kHz



Small, convenient and extremely portable, this little audio generator can be used to test speakers and audio equipment normally found in field service application.

- Sine and square wave generator
- 20Hz to 150kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Low battery indicator
- Includes 9VDC battery
- Compact, fully portable, light weight
- One-year manufacturer's warranty
- Size: 5.9"L x 3.2"W x 0.8"H• Weight: 0.7 lbs.

Part No.	Product No.	Description	1	10
166334	BK3001	Audio generator	$69.95	$62.95

METEX® 4 in 1 Universal System

with Function Generator, Universal Counter, DC Power Supply and Digital Multimeter



- Function generator capable of generating seven forms of waves (sine, square, triangle, skewed sine, ramp, pulse, and TTL square wave) in the seven frequency range sourcing from 0.2Hz to 2MHz
- Universal counter, capable of measuring frequency ranges from 5Hz to 1.3GHz
- DC power supply, capable of generating with 5V @ 2A, 15V @ 1A fixed and 0 to 30V @ 0 to 2A variable
- Digital multimeter capable of measuring DC voltage (400mV to 100V), AC voltage (400mV to 750V), DC/AC current (40mA to 20A), resistance (400Ω to 40MΩ), capacitance (4nF to 400µF) and diode measuring forward resistance of a semiconductor junction in KΩ
- Includes manual, cables and software
- Size: 14.5"W x 14.0"D x 7.0"H • Weight: 37 lbs.
- One-year warranty

Part No.	Product No.	Description	1	5
160864	MS9150	4 in 1 univ. sys.	$549.95	$499.95

METEX® 4 1/2 Digit Benchtop Multimeter



- 19999 display counts with automatic polarity indicator
- 1-2 readings per second
- DC voltage (range/resolution): 200mV to 1000V/ 10uV to 100mV w/ accuracy of 0.1% +5 digits
- AC voltage (range/resolution): 200mV to 750V/ 10uV to 100mV with accuracy of 2.5% +10 digits
- DC current (range/resolution): 2mA to 20A/ 100mA to 1mA with accuracy of 0.5% +3 digits
- AC current (range/resolution): 2mA to 20A/ 100mA to 1mA with accuracy of 2.5% +10 digits
- Resistance (range/resolution): 200Ω to 20MΩ/ 0.01Ω to 1KΩ with accuracy of 0.5% +5 digits
- Frequency (range/resolution): 20KHz to 20MHz/ 1Hz to 1KHz with accuracy of 0.1% +2 digits
- Logic, diode and continuity testing
- Includes manual, power cable, probes and software
- Size: 11.2"L x 8.2"W x 3.2"H • Weight: 7.5 lbs.
- One-year warranty

Part No.	Product No.	1	10
166852	MXD4660A	$249.95	$224.95

METEX® 20MHz Digital Oscilloscope



(Shown w/ logic probe P/N 162974 – not included)

- 4 in 1 test equipment: oscilloscope, DMM, frequency counter and logic analyzer
- Easy to read 3.8"W x 2.8"H LCD display
- Oscilloscope: 2 channel input, 5mV/div ~ 2V/div sensitivity; DC ~ 20MHz (-3dB) @ equivalent sampling bandwidth; 50ns/div ~ 0.5us/div @ equivalent sampling sweep time
- Logic analyzer: 8 input channel; 1.4V approx. (TTL level) threshold level; 35VDC maximum input; more than 50ns min. pulse width
- Digital multimeter: 3¾ digit (max 3999 counts); 40 segment analog bargraph; AC/DC voltage from 400mV to 600V; AC current from 40µA - 400mA; DC current from 400µA - 400mA; resistance from 400Ω to 40MΩ; continuity and diode testing
- Frequency counter: 5Hz ~ 20MHz (19.999MHz); 5 digit max. display; autoranging; AC/DC/DC input coupling; ± 10ppm accuracy; maximum input of 35Vrms/ 42V peak/ 60VDC max
- Oscilloscope probes use P/N 22891/66149/ 140687 (pg 136) • One-year warranty
- Includes manual, 5VDC @ 3A power supply, power cord, DMM test leads, holster and case
- Size: (unit) 10.0"L x 5.0"W x 2.0"H • Wt: 9.2 lbs.

Part No.	Description	1	5
162430	20MHz digital scope	$799.95	$749.95
162974	Logic probe	59.95	53.95
163141	Rechargeable battery	59.95	53.95
162966	RS232 cable and software	24.95	22.49

METEX® Function Generator and Frequency Counter

Function Generator 2Hz – 2MHz



Function Generator:

- Wave forms: sine, square, triangle, skewed, ramp, pulse and TTL level square
- Frequency: 2Hz to 2MHz in 7 ranges
- Output impedance: 50Ω ±10%
- Output amplitude: 2Vpp to 20Vpp at open load; 1Vpp to 10Vpp at 50Ω load
- Offset variable range (max.): ±10VDC at open load
- Frequency sweep time: 20mS to 2S

Frequency Counter:

- Measuring range: channel A – 5Hz to 100MHz; channel C – 100MHz to 1500MHz
- Input sensitivity: 30mVRMS sinewave for 100MHz to 1300MHz; 70mVRMS for 1300MHz to 1500MHz
- Max. input voltage: channel A – 250Vp-p; channel C – 3Vp-p • Time base switchable
- Input impedance: channel A – 1MΩ; channel C – 50Ω
- Resolution: 10MHz or less 6-8 digits/ 0.1S to 10S; 100MHz or more - 0.1Hz - 10Hz/ 0.1A to 10S

System Specifications

- Includes coax cable, power cable, manual and software
- Size: 11.0"L x 8.2"W x 3.7"H • Weight: 13.4 lbs.

Part No.	Description	1	10
166844	Function generator/counter	$299.95	$269.95

METEX® 3½-Digit Multimeter with Computer Interface



- 3½-digit LCD (.65" digit height) with analog bar
- Computer interface (RS232C) DE9M/F cable w/ DOS/Win® software (3.5" diskette)
- Data hold
- **AC voltage/resolution:** 200mV - 750V @ 100µV - 1V
- **DC voltage/resolution:** 200mV - 1000V @ 100µV - 1V
- **Resistance/resolution:** 200Ω - 2000MΩ @ 0.1Ω - 1MΩ
- **AC/DC current/resolution:** 2mA - 20A @ 1µA - 10mA
- **Frequency/resolution:** 2kHz - 20MHz @ 1Hz - 10kHz
- Diode, logic test and continuity test
- Agency approved CE/TUV
- Includes operating manual, probes, 9V battery and 3.5" software • One-year warranty
- Size: 3.0"W x 1.5"D x 7.2"H • Weight: 1.8 lbs.

Part No.	Product No.	1	10	25
155483	ME-21	$59.95	$53.95	$44.95

METEX® 3½-Digit Multimeters with Computer Interface and Temperature Measurement



- 3½-digit LCD (.65" digit height) with analog bar • Data hold
- Computer interface (RS232C) DE9M/F cable w/ DOS/Win® software (3.5" diskette)
- **AC voltage/resolution:** 200mV - 750V @ 100µV - 1V
- **DC voltage/resolution:** 200mV - 1000V @ 100µV - 1V
- **Resistance/resolution:** 200Ω - 2000MΩ @ 0.1Ω - 1MΩ
- **AC/DC current/resolution:** 2mA - 20A @ 1µA - 10mA

155475

- **Frequency/resolution:** 2kHz - 20MHz @ 1Hz - 10kHz
- Temperature: -40˚C - 1200˚C @ 1˚C resolution
- Diode, transistor hfe for NPN and PNP, logic test and continuity test • One-year warranty
- Agency approved CE/TUV
- Includes operating manual, probes, K-type thermocouple, 9V battery and 3.5" software
- Size: 3.0"W x 1.5"D x 7.2"H • Weight: 1.9 lbs.

Part No.	Product. No.	1	10	25
155475	ME-22	$69.95	$62.95	$56.95
155491	ME-22T (true RMS)	89.95	79.95	71.95

METEX® 3½-Digit Multimeter with Computer Interface & Dual Display



- 3½-digit LCD w/ 2000 counts (.65" digit height)
- Auto/min/max/data hold function
- Tests continuity, diode, transistor hfe, frequency, capacitance and temperature
- Measures AC/DC voltage: AC range: 200mV - 750V with 100uV to 1V resolution; DC range: 200mV - 100V with 100uV to 1V resolution
- Measures AC/DC current: AC range: 2mA - 20A w/ 0.1uA - 10mA resolution; DC range: 2mA - 20A w/ 0.1uA - 100mA resolution
- Measures resistance: 200Ω to 20MΩ with 0.1Ω to 10KΩ resolution • One-year warranty
- Agency approved CE/TUV
- Includes PC interface cable, probes, temperature probe, manual, software and 9V battery
- Size: 3.2"W x 1.2"D x 7.1"H • Weight: 1.8 lbs.

Part No.	Product No.	1	10	25
160813	M3640D	$99.95	$89.95	$79.95

METEX® 3½-Digit Multimeter .5" Digit Height • LCD Readout



- **AC voltage/resolution:** 200mV/100µV, 2V/1mV, 20V/10mV, 200V/100mV, 700V/1V
- **DC voltage/resolution:** 200mV/100µV, 2V/1mV, 20V/10mV, 200V/100mV, 1000V/1V
- **AC & DC current/resolution:** 20µA/10nA, 200µA/100nA, 2mA/1µA, 20mA/10µA, 200mA/100µA, 2A/1mA, 20A/10mA
- **Resistance/resolution:** 200Ω/0.1Ω, 2KΩ/1Ω, 20KΩ/10Ω, 200KΩ/100Ω, 2MΩ/1KΩ, 20MΩ/10KΩ
- Auto zeroing • Input impedance: 10MΩ
- Overload protection: 1000VDC/750VAC
- Agency approved CE/TUV
- Includes probes, carrying case, manual and 9V battery
- See page 137 for compatible leads (P/Ns: 77745, 77770, 21856, 21864)
- Size: 3.5"W x 1.3"D x 6.8"H • Weight: 1.2 lbs.
- One-year warranty

Part No.	Product No.	Description	1	10	50
27115	M3800	3½-digit	$39.95	$35.95	$32.49

METEX® 3½-Digit Multimeter with Computer Interface and Temperature Measurement



- 3½-digit LCD (.75" digit height)
- Computer interface (RS232C) w/ software (3.5") and cable
- Measures AC/DC voltage: AC current (400mA to 20A), DC current (400mA to 20A)
- Measures resistance (400Ω to 40MΩ), diodes, & continuity
- Autoranging all scale settings
- Temperature measurement probe (-40˚C to +1200˚C)
- Measures transistor hfe, frequency, and capacitance
- Data hold switch • One-year warranty
- Agency approved CE/TUV
- Includes manual, software, RS232 interface cable, temperature probe and probes
- Size: 3.3"W x 1.8"D x 7.2"H • Weight: 1.8 lbs.

Part No.	Product No.	1	10	25
117372	M3850D	$109.95	$99.95	$89.95

METEX® 3¾-Digit Multimeter with Computer Interface & Dual Display



- 3¾-digit LCD (.6" digit height)
- Measures AC/DC voltage: AC current (400mA to 20A) DC current (400mA to 20A)
- Measures resistance (400Ω to 40MΩ)
- Computer interface (MT/RS232C) with software and cable
- Autoranging all measurement settings
- Measures inductance capacitance, temp. (˚C/˚F), transistor hfe and frequency • One-year warranty
- Agency approved CE/TUV
- Includes 9V battery and 3.5" software diskette
- Size: 3.3"W x 1.8"D x 7.2"H • Weight: 1.9 lbs.

True RMS

Part No.	Product No.	1	10
137461	M3860D	$139.95	$125.95

METEX® 4½-Digit Multimeter with Computer Interface

.5" Digit Height • LCD Readout



- **AC voltage/resolution:** 200mV/10µV, 2V/100µV, 20V/1mV, 200V/10mV, 750V/100mV
- **DC voltage/resolution:** 200mV/10µV, 2V/100µV, 20V/1mV, 200V/10mV, 1000V/100mV
- **AC & DC current/resolution:** 2mA/100nA, 20mA/1µA, 200mA/10µA, 20A/1mA
- **Diode/continuity:** measures forward resistance of a semiconductor junction in KΩ a test current of approximately 30Ω
- **hfe:** display reads approximate hfe value of transistor under test (all types)
- **Capacitance/resolution:** 20nƒ/1pƒ, 200nƒ/10pƒ, 20nƒ/1nƒ, 200nƒ/10nƒ
- **Frequency/resolution:** 20KHz/1Hz, 200KHz/10Hz, 2MHz/100Hz
- Agency approved CE/TUV
- Includes software, test leads, PC interface, manual and 9V battery
- Size: 3.3"W x 1.5"D x 7.5"H • Weight: 2.0 lbs.
- LCD size: 2.4"W x 1.3"H • One-year warranty

Part No.	Product No.	1	10
144872	M4640A	$129.95	$116.95

METEX® 3¾-Digit Multimeter with Computer Interface & Multi Display



- 3¾-digit LCD (0.6" digit height)
- Measures AC/DC voltage: AC range (400mV to 750V); DC range (400mV to 1000V)
- Measures AC/DC current: AC range (4mA to 20A); DC range (400µA to 20A)
- Resistance: 400Ω to 10MΩ
- Capacitance: 4nƒ to 400µƒ
- Frequency: 4kHz to 40MHz
- Temperature: -40˚C to 1200˚C
- Measures transistor hfe and wattage
- 4000 maximum reading with automatic polarity display
- 2.5 measurements per second • One-year warranty
- Computer interface (RS232) w/ cable and software
- Agency approved CE/TUV
- Includes 9V battery, probes and manual
- Size: 3.2"W x 1.2"D x 7.5"H • Weight: 2.0 lbs.

Part No.	Product No.	1	10
160821	M3860M	$159.95	$144.95

MASTECH 4½-Digit Multimeter



- Extra large digits (0.8" digit height)
- AC voltage: 2V to 700V
- DC voltage: 200mV to 1000V
- AC/DC current: 2mA to 10A
- Resistance: 200Ω to 200MΩ
- Frequency: 20KHz
- Capacitance: 2000pf to 20µF
- Measures transistor hfe and continuity
- Hold button • Auto power off
- Agency approved CE
- Includes protective boot, 9V battery, probes and manual
- Size: 3.9"W x 1.9"D x 8.0"H
- Weight: 1.5 lbs. • One-year warranty

Part No.	Product No.	1	10	25
136590	MY65	$69.95	$62.95	$56.95

Prime Factory Products Listed in White – Full Factory Warranty on Both Products! – Refurbished Factory Products Listed in Yellow

Fluke 89 Series IV Digital Multimeter

.54" Digit Height



- 0.025% basic DC accuracy
- 50,000 count resolution with instant readings enables detailed analysis
- 100kHz AC bandwidth
- Internal memory allows for stand alone uploading and storage of up to 1000 measurements for later viewing or uploading to optional Fluke View Forms Software
- MIN/MAX to record and timestamp values in real time; Fast MIN/MAX captures peaks to 250µs
- Temperature readings in ˚C or ˚F using optional K-type thermocouple
- Enhanced ranges, such as DC voltage measurements down to 10µV and capacitance up to 50mF
- Multiple reading display with bargraph has two level backlight • Lifetime manufacturer's warranty
- Size: 3.8"W x 1.8"D x 7.5"H • Weight: 2.6 lbs.

Part No.	Model No.	Description	1	5
164312	FLK89-4	89 series meter ...	$398.95	$368.95

Fluke 70 Series III Analog/ Digital Multimeters

.53" Digit Height



The 75/79 Series III raises the bar on affordable, high performance DMMs.

- Overvoltage protection, and the IEC 61010-1 safety rating to prove it
- The rugged overmolded case offers constant protection
- Large, easy to read display with analog bargraph
- Measure AC/DC volts, ohms, diode/continuity, and AC/DC amps
- Size: 3.5"W x 1.5"D x 7.5"H • Weight: 1.9 lbs.
- Lifetime manufacturer's warranty

160637: • Measure frequency and capacitance
- True RMS for measuring non-linear loads

Part No.	Model No.	Description	1	5
160602	FLK-75-3	600V Cat. III	$164.95	$154.95
160637	FLK-79-3	True RMS	208.95	198.95

Fluke 123 20MHz Industrial ScopeMeter®

Scope, Meter and Recorder in One Tool!



The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, control and power systems. Why? Because of a breakthrough in scope technology. We call it Connect-and-View™.
The Fluke 123 automatically recognizes signal patterns and automatically sets up correct triggering, timing and amplitude for stable displays of complex industrial signals.

- **Scope:** dual input 20MHz oscilloscope
- **Meter:** dual input 5000 count True RMS meter
- **Recorder:** dual channel TrendPlot™
- Size: 4.5"W x 2.0"D x 9.1"H • Weight: 5.8 lbs.
- Three-year manufacturer's warranty

Part No.	Model No.	Description	1	5
162747	FLK123-003R	Refurbished	$899.95	$869.95

Fluke 16 Multimeter w/ Thermometer

.48" Digit Height

Three Tools in One!



- **Thermometer:** accurate temp. measurements from -40˚ to 750˚F (-40˚ to 400˚C)
- **Flame rod circuit tester:** built-in microamp measurement down to 0.1µA (200µA max.)
- **Multimeter with capacitance:** AC/DC voltage up to 600V; resistance up to 40MΩ; diode test and exceptionally fast continuity; capacitors up to 10,000µF
- Size: 3.0"W x 1.1"D x 6.6"H • Weight: 1.4 lbs.
- Two-year manufacturer's warranty

Part No.	Model No.	Description	1	5
160573	FLK-16	Multimeter ...	$128.95	$125.95

Fluke T5-1000 Electrical Voltage, Continuity and Current Tester

.43" Digit Height



The Fluke T5 electrical tester lets you check voltage, continuity and current with one compact tool. With the T5, all you have to do is select volts, ohms, or current and the tester does the rest.

- Automatically selects volts AC or DC
- Displays resistance to 1000Ω
- Easy and accurate OpenJaw™ current measurement
- Compact design with neat probe storage • Weight: 1.0 lb.
- Size: 2.0"W x 1.2"D x 8.0"H
- Two-year manufacturer's warranty

Part No.	Model No.	Description	1	5
160645	T5-1000	Tester.....	$108.95	$98.95

Fluke 620R Cable Meter



- Portable and easy to use
- Single person operation
- Detects shorts, opens, crossed wiring, reversed wiring, and split pairs
- Locates wiring / connection errors (distance to the open or short)
- Measures cable length (range: 1 to 999 feet with 1 foot resolution; 5% ±3 ft. accuracy)
- Displays in feet or meters
- Tests all LAN cable types: UTP, STP, FTP, Coax
- Tests 2/3/4 wire pairs • Refurbished
- Size: 7.3"L x 3.9"W x 1.8"H • Weight: 0.8 lbs.

Part No.	Model No.	Description	1	5
182027	FLK620R	620 Refurb. ..	$449.95	429.95

Fluke 7 Series Electrical Tester

.47" Digit Height



- Ideal for first-level electrical troubleshooting • Auto selection
- 4000 count digital display
- Automatic reading of volts AC/DC
- 400Ω range/continuity beeper
- Size: 2.8"W x 1.4"D x 5.6"H
- Weight: 1.1 lbs.
- Two-year manufacturer's warranty

Part No.	Model No.	Description	Price
162835	FLK7-600R	600V Refurb.	$39.95

Fluke 99 Series B 100MHz ScopeMeter®



Fluke ScopeMeter® 99 Series B is one of the most powerful family of handheld digital storage oscilloscopes used by more engineers worldwide than any other.

- With the Fluke DP 120 differential voltage probe, measurements on two channels with different ground potential are easy and safe
- 60 or 100MHz bandwith
- Dual channel DSO and 5 GS/s repetitive sampling provides excellent signal fidelity
- Extensive trigger capabilities • Cursor measurements
- 30K deep memory ScopeRecord™
- True RMS, 3000 count DMM with 0.5% accuracy
- Size: 5.5"W x 2.5"D x 10.8"H • Weight: 7.6 lbs.
- Three-year manufacturer's warranty

Part No.	Model No.	Description	1	5
164099	FLK99B-003R	Refurb.	$1699.95	$1649.95

Fluke 10 Series Digital Multimeters

.47" Digit Height



The Fluke 10 Series DMM's are designed for first level electrical/ electronic troobleshooting. Their compact design, slide switch and push button controls allow for true one-hand operation. The 12B has the same great functionality with an easy to use rotary dial.

- 4000 count digital display
- Cat-III 600V rated
- AC/DC volts, resistance and continuity
- Size: 2.8"W x 1.4"D x 5.6"H • Weight: 1.2 lbs.
- Two-year manufacturer's warranty

162624:
- V-Chek™ for automatic reading of AC/DC volts
- Capacitance: 1000-9999µF
- Min/max record
- Continuity capture locates intermittent open/shorts

Part No.	Model No.	Description	1	5
162595	FLUKE-10	Model 10 meter	$78.95	$74.95
162624	FLUKE-12B	Model 12B meter	98.95	94.95

Fluke 87 Series III Analog/ Digital Multimeter

.53" Digit Height



The 87 Series III DMM provides 11 functions for electronic and industrial applications, including high performance AC/DC voltage, frequency, duty cycle, resistance, conductance, and capacitance measurements.

- 4½-digit mode (20,000 count) display
- 250µs peak hold to capture fast transients
- Improved EMI rejection for better performance
- Size: 3.4"W x 1.3"D x 7.4"H • Weight: 2.6 lbs.
- Lifetime manufacturer's warranty

Part No.	Model No.	Description	1	5
160565	FLK-87-3	True RMS	$348.95	$335.95

Protek 3¾-Digit Multimeter

- 0.8" digit height
- RS232C interface
- True RMS mode
- 4000 count, auto-ranging with analog bargraph
- 9999 (10MHz) count frequency counter
- 10 location memory
- Time mode with alarm, clock and stop watch
- MIN., MAX., AVG. and relative mode
- Decibel measurement • Temperature mode (˚C/˚F)
- Backlit display • Two-year warranty
- Capacitance and inductance measurement
- Includes test leads, temperature probe, software (3.5" diskettes) and 9V battery
- Size: 7.8"L x 3.3"W x 1.5"H • Weight: 2.6 lbs.

Now includes Temperature Probe!

Two-year warranty

RS232 Interface



Part No.	Description	1	10
123721	3¾-digit multimeter	$219.95	$199.95

JAMECO Infrared Thermometer

- 0.4" digit height
- Non-contact temperature range: -10˚C to 350˚C (14˚F to 662˚F)
- Built-in K-type thermometer connector (temperature range): -50˚C to 1230˚C (recommended P/N 123879 – right)
- Precision for direct or non-contact temperature measurement
- Non-contact measurement distance: 40"
- 0.1˚ min. resolution for infrared thermometer
- Celsius and Fahrenheit display unit by push button
- Easy readout LCD display
- Microprocessor circuit assures maximum possible accuracy, special functions and features
- Records maximum and minimum readings on recall
- Operates on 9V battery (not included) P/N 151095
- Includes users manual and padded plastic case
- Data hold • Auto shut-off • Size: 5.0"L x 7.7"H (gun type)
- Weight: 1.9 lbs. • One-year warranty



Part No.	Description	1	10
153584	Infrared thermometer	$179.95	$159.95

TPI Infrared Thermometer

8:1 Spot Ratio

Free Belt Clip

- ˚F and ˚C selectable
- Temperature range: 14˚F (-10˚C) to 950˚F (510˚C)
- Accuracy @ 23˚C and 0.95 emissivity: +/-2% or +/-3.5˚F (whichever is greater)
- 0.95 emissivity provides best accuracy for most surfaces
- 8:1 distance to spot ratio
- 0.1 resolution provides increased accuracy of reading
- Response time: 500msec
- Maintain reading on display in hard to read areas with display hold button
- 0.38" character height
- Includes 9V battery and nylon case
- Three-year manufacturer's warranty
- Size: 7.8"L x 1.3"W x 2.0"Thick
- Weight: 0.8 lbs.



Part No.	Description	1	10
174511	TPI 373	$139.95	$125.95

JAMECO 3½-Digit Multimeter with Temperature and Frequency Measurement

- 3½-digit LCD (1.0" digit height)
- Measures AC voltage (range: 200mV to 700V); DC voltage (range: 200mV to 100V)
- Measures AC current (range: 200uA to 10A); DC current (range: 200uA to 10A)
- Data hold switch
- Measures resistance (range: 200Ω to 200MΩ)
- Measures capacitance (range: 2nF to 20uF)
- Measures frequency (up to 20Khz)
- Measures temperature (range: -20˚C to 1000˚C)
- Diode, transistor, and continuity testing
- Includes manual, probes, temperature probe, and 9V battery
- Size: 4.0"W x 2.0"D x 8.0"H • Weight: 1.6 lbs.



Part No.	Product No.	1	10
177480	AEEC2890	$49.95	$44.95

EXTECH Mini Infrared Thermometer

- ˚F and ˚C selectable
- Measures -4˚F (-20˚C) up to 608˚F (320˚C) without contact
- Resolution of ˚1F (17˚C)
- Large backlit display (0.36" digit height)
- Built-in laser pointer for better aim
- Fixed emissivity to cover 90% of surface applications
- Narrow field of view (distance at 6" measures 1" target)
- Auto data hold • Includes 9V battery
- Size: 5.7"L x 1.6"W • Weight: 0.6 lbs.



Part No.	Description	1	10
170421	Mini infrared thermometer	$99.95	$89.95

EXTECH Digital Multimeter Temperature Adapter

- Measures in Centigrade or Fahrenheit
- Applicable to most digital multimeters with standard two input terminals (works with all Jameco multimeters)
- Set multimeter to mV or VDC range for reading temperature
- Temperature range: 0–2000˚F (-18–1090˚C)
- Output resolution: 1mV per degree
- Accuracy: ±3% to 233˚F (±5% above 233˚F)
- Power supply: 9V battery (included)
- Includes K-type thermocouple, instruction manual and 9V battery • Size: 3.0"L x 2.0"W x 1.0"H
- Weight: 0.4 lbs. • One-year warranty



Part No.	Description	1	10
156515	DMM temperature adapter	$29.95	$26.95

EXTECH Pocket Thermometer

- 0.5" digit height
- Fahrenheit or Celsius
- Max., min. and hold functions
- Switch for alarm
- Measurement range: -50°C to +150°C or -58°F TO +302°F
- Resolution: 0.1° (-19.9° to +199.9°); 1° (greater than 199.9°)
- Accuracy: ±1° in Celsius and ±1.8° in Fahrenheit
- Sensor: 2.5" stainless steel sensing probe
- Size: 2.0"W x 0.4"D x 4.3"H • Weight: 0.2 lbs.
- One-year warranty • Includes battery



Part No.	Description	1	10
148814	Digital thermometer	$29.95	$26.95

EXTECH Digital Sound Level Meter

Auto Range Sound Level Measurements

- Measurement ranges: auto ranging from 40–130dB in A weighted mode; 45–130dB in C weighted mode
- Accuracy: ±2dB at 94dB sound level
- Display: 3.5 digit LCD with analog bargraph • Resolution: 0.1dB
- Display update rate: 160ms (LDC), 40ms (bargraph)
- Time weighting: fast slow response selectable • Analog output: AC 0.707Vrms
- Frequency weighting: A and C selectable
- Microphone: electret condenser type
- Includes 9V battery, case and manual
- Size: 7.1"L x 2.7"W x 1.4"H • Weight: 0.7 lbs.



Part No.	Description	1	10
170430	Digital sound meter	$79.95	$71.95

EXTECH Non-Contact Voltage / Metal Detector

- Detects metal studs, screws/nails, pipes, and conduits through walls
- Checks fuses, lamps and bulbs, verified polarity, determines Hot/Live/Neutral wiring configurations, AC power, DC voltage and continuity
- Provides audio and visual verification (alarm & LED)
- Size: 5.5"L x 1.1"W x 0.6"H • Weight: 0.2 lbs.
- One-year warranty



Part No.	Description	1	10
154755	Non-contact detector	$16.95	$15.29

JAMECO Digital Light Meter

- 0.5" digit height
- Measures in Lux and footcandle ranges
- Range: Lux – 0-50,000 Lux (3 ranges); footcandle – 0-5,000 Fc (3 ranges)
- Analog output connectors for external recording
- Separate light sensor for optimum location sampling
- Dimensions: instrument – 6.4"L x 2.8"W x 1.2"H sensor probe – 3.2"L x 2.2"W x 0.5"H
- Weight: 0.9 lbs. • One-year warranty



Part No.	Description	1	10
131764	Digital light meter	$99.95	$89.95

JAMECO Dual Digital Thermometer and Probe

123861: • 0.4" digit height

- Measurement range: -50°C to 1300°C (-58°F to 1999°F)
- Ambient operating range: 0°C to 50°C (32°F to 122°F)
- Maximum voltage at thermocouple input: 60VDC, 24VAC
- Resolution: 1˚C, 1˚F
- For use with any K-type thermocouple as temperature sensor – recommend P/N 123879
- Size: 5.3"L x 2.8"W x 1.2"H • Weight: 0.6 lbs.
- One-year warranty • Includes 9V battery

123879: • Type K thermocouple (chrome lead = pos., aluminum lead = neg.) • For use with P/N 123861

- Temp range: -58˚F (-50˚C) to 392˚F (200˚C)
- Welded exposed thermocouple 0.03" diameter
- Length: 3' • Weight: 0.02 lbs.



Part No.	Description	1	10
123861	Digital thermometer	$69.95	$62.95
123879	Temperature probe	11.95	10.49

20MHz Dual Trace Oscilloscope



- 6" rectangular high resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: .2µS/div to .2S/div in 19 calibrated steps, 1-2-5 sequence
- Max signal input voltage: 250V (DC and peak AC)
- Power requirements: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50/60Hz, 45W
- ADD function measures sum of two signals
- Includes: two 40MHz probes (X1 & X10), power cord, manual, and block diagram
- Size: 16.4"L x 12.6"W x 5.3"H • Weight: 20.8 lbs.
- Two-year manufacturer's warranty

Part No.	Product No.	Description	1	5
136098	OS5020	20MHz scope ...	$399.95	$379.95

20MHz Dual Trace Oscilloscope with 1MHz Function Generator



- Basic specs same as OS5020 (above) plus...
- 1MHz function generator built in (OS5020G)
- Frequency range: 0.1Hz to 1MHz (7 ranges)
- Output waveform: sine, triangle, square, TTL pulse
- Output impedance: 50Ω • Output voltage: 14Vp-p
- Power requirements: AC100/120/220/240V 50/60Hz-45W
- Size: 12.6"L x 12.6"W x 6.8"H • Weight: 23.8 lbs.
- Two-year manufacturer's warranty

Part No.	Product No.	Description	1	5
94650	OS5020G	Func. generator	$499.95	$469.95

100MHz Oscilloscope



- DC to 100MHz, 2-ch dual trace
- Signal delay with delay line
- Auto focusing according to the change of intensity
- Size: 16.9"L x 12.6"W x 5.5"H • Weight: 22.8 lbs.
- Two-year manufacturer's warranty

Part No.	Product No.	Description	1	5
121179	OS5100	Oscilloscope.....	$899.95	$849.95

PROBEMASTER 150MHz Oscilloscope Probe

Designed for use with Tektronix, Hewlett Packard oscilloscopes.



- 3 position switch: 1X, ref, 10X
- Bandwith @ 3db: 10MHz (X1); 150MHz (X10)
- Loading: 55/14p*f* 1MegΩ (X1); 14p*f* 10MegΩ (X10)
- Low resistance gold contacts • Cord length: 4'4"
- Weight: 0.2 lbs. • 7 piece kit

Part No.	Product No.	1	10	50
174473	4901-02	$42.95	$38.95	$34.95

2MHz Function Generator



- Frequency range: .02Hz to 2MHz
- Waveforms: sine, triangle, square, ramp, TTL pulse, skewed sine
- Variable waveform/duty cycle symmetry
- Linear sweep control from 1:1 to 100:1
- DC offset voltage from 0 to ±10V can be superimposed to output waveform
- Output volt.: 20Vp-p (open circuit) 10Vp-p (into 50Ω)
- Power requirements: 110V/220V 50/60Hz, 20W
- Includes: power cord, BNC to clip cable, fuse and manual • One-year manufacturer's warranty
- Size: 10.0"L x 8.0"W x 3.0"H • Weight: 5.4 lbs.

Part No.	Product No.	1	10	25
66069	FG8002	$199.95	$179.95	$164.95

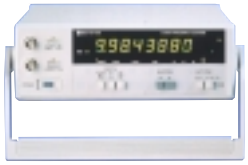
2MHz Sweep Function Generator with 6-Digit Green LED Frequency Counter



- Output impedance: 50Ω ±5%
- Frequency range: .02Hz to 2MHz in 7 ranges
- Frequency counter range: 2Hz to 50MHz
- Maximum input voltage: 250Vp-p
- Power requirements: 115/230VAC @ 50/60Hz (switch selectable) • One-year warranty
- Includes probe and detachable power cord
- Size: 10.3"L x 10.0"W x 3.2"H • Weight: 5.8 lbs.

Part No.	Product No.	Description	1	5
94676	FG7002C	Function gen.	$319.95	$289.95

1.5GHz Frequency Counter



- 9-digit green LED display
- Totalize RPM, period
- Gate time: 0.01s, 0.1s, 1s, 10s
- Input power: AC 110V/220V ±10%, 50/60Hz
- Includes fuse, manual and BNC cable • Weight: 5.3 lbs.
- Size: 10.3"L x 10.0"W x 3.2"H • One-year warranty

Channel	Frequency Range	Resolution
A	0.2Hz-150MHz	0.1µHz-10kHz
B	50MHz-1.5GHz	0.1µHz-10kHz

Part No.	Product No.	Description	1	5
55790	FC7150	Freq. counter....	$279.95	$251.95

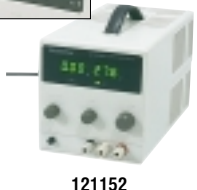
90 Watt Digital and Analog DC Power Supplies

See page 128 for more Benchtop Power Supplies!

30VDC @ 3 Amps



101928 Meter Face



121152

- Output voltage: 0-30V
- Output current: 0-3A
- Can be used for positive or negative source
- Overload protection circuit
- Constant current and constant voltage operation
- Power requirements: 100-240VAC @ 50/60Hz
- Size: 5.2"W x 5.6"H x 10.0"D • One-year warranty

Part No.	Product No.	Description	Wt. (lbs.)	1	10
101928	GP4303A	Analog DC	10.9	$179.95	$159.95
121152	GP4303D	Digital DC	10.7	199.95	179.95

JAMECO 3½-Digit Pocket Multimeter



- 0.5" digit height
- Measures AC/DC voltage, A DC, hfe and resistance
- DC voltage: 200mV, 2V, 20V, 200V, 1000V
- AC voltage: 200V, 750V
- Resistance: 200Ω, 2kΩ, 20kΩ, 200kΩ, 2MΩ
- DC current: 200µA, 2mA, 20mA, 200mA, 10A
- Diode test
- Transistor hfe • Includes 9V battery
- Removable test leads • One-year warranty
- Size: 2.6"W x 1.0"D x 4.8"H • Weight: 0.5 lbs.

Part No.	Description	1	10	50
119212	Pocket multimeter...	$16.95	$14.95	$13.49

Benchtop Digital Multimeter



- 4½ digit display, 5-digit green LED, 19999 count
- Vdc basic accuracy of 0.05%
- Full overload protection
- Frequency measurement up to 200kHz
- Continuity check with beeper • True RMS in AC range
- Data hold, diode check, TR hfe measurement available
- 600V overload protection in resistance range
- DC voltage: 200mV-1000V • AC voltage: 200mV-750V
- DC/AC current: 2mA-10A • Resistance: 200Ω-20MΩ
- Size: 9.9"L x 9.8"W x 3.6"H • Weight: 6.1 lbs.
- One-year manufacturer's warranty

Part No.	Product No.	1	10	25
132564	DM441	$229.95	$214.95	$199.95

3¾-Digit Multimeter



- 3¾-digit (0.53" digit height) LCD with analog bar graph
- AC/DC voltage: 750V/1000V
- AC/DC current: 10A
- Resistance: 20mΩ - 40MΩ
- Diode/continuity test
- 3200 count • Auto range
- Data hold • Auto power off
- Agency approved: UL/CE
- Weight: 1.5 lbs.

Part No.	Product No.	Description	1	10
101936	DM333	3¾-digitmeter	$69.95	$62.95

190 Watt Triple Output Power Supply

Digital Display



- **Output voltage:**
  0 to +30VDC @ 3A
  0 to -30VDC @ 3A
  +5VDC @ 2A
- Ripple voltage: less than 3mVp-p
- Volt and current meter: LED display (±1% + 1 digit)
- Power requirements: 100VAC-230VAC @ 50/60Hz (jumper selectable) • Overload protection circuit
- Includes manual and spare fuse
- Weight: 23 lbs. • One-year warranty

Part No.	Product No.	Description	1	5
157518	GP4303TP	Power supply....	$549.95	$499.95

JAMECO® Logic Probe



- Max input frequency: 17MHz
- Minimum pulse width: 30ns
- Input impedance:1MΩ
- Pulse flash time: 500ms
- Audible tone
- Power supply protection: ±20V
- TTL threshold: (Lo) 0.8V ±0.2V, (Hi) 2.3V ±0.2V
- CMOS threshold: (Lo) 30% VCC, (Hi) 70% VCC
- Size: 7.7"L x 1.0"W x 0.6"H • Weight: 0.4 lbs.

Part No.	Description	1	10	25
149930	Logic probe	$29.95	$26.95	$23.95

JAMECO® Logic Pulser



- Compatible with TTL, DTL, RTL, HTL, HNIL, MO and CMOS ICs • 1MΩ sync input impedance
- "One shot" or continuous 5Hz train pulse
- Pulse repetition rate: 0.5pps/400pps
- Pulse width output at 100mA load: 10µs
- Pulse mode output current: 10mA
- Square wave current output: 5mA
- Size: 7.8"L x 1.0"W x 0.6"H • Weight: 0.2 lbs.

Part No.	Description	1	10	25
24601	Logic pulser	$19.95	$17.95	$15.95

AINES Tone Generator and Inductive Probe



Identify the termination point and/or path of metallic wiring in addition to performing continuity and polarity checks!

- 2 tracing tones, solid or warble
- 3-color LED • Each uses one standard 9V battery
- Weight: 0.7 lbs. • One-year warranty

Part No.	Description	1	10
123596	Tone generator/ind. probe	$109.95	$99.95

High Voltage AC/DC Test Probe



- Maximum voltages: DC: 40KV, AC: 40KV, 28kVRMS
- Accuracy: DC: ±2%, AC: ±3%
- Works with a voltmeter or multimeters with 10MΩ input impedance and high voltage leads
- Input/output impedance: 1,000MΩ/1.1MΩ
- Cable length: 39" • Probe length: 14"
- Weight: 0.8 lbs. • One-year warranty

Part No.	Description	1	10
132290	High voltage test probe	$89.95	$80.95

ELENCO Telephone Line Analyzer Test Kit



- Connects between telephone and wall jack
- Line test: verifies DC voltage to phone
- Loop test: verifies condition of line from phone company central office to your wall jack
- Ring test: verifies AC ringing voltage to phone
- Cord test: verifies the condition of your phone cord (if detachable) • Weight: 0.8 lbs.
- Size: 4.4"L x 2.5"W x 1.8"H • One-year warranty

Part No.	Description	1	10
119378	Line analyzer kit	$24.95	$22.49

JAMECO® 60MHz Modular Oscilloscope Probe



- BNC male connector
- Hook and pointed probe
- Alligator clip ground wire
- Max: 600VDC
- 5' cable • Weight: 0.2 lbs.

* *with oscilloscope input 30pf*

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	40MHz
Bandwidth (3dB)	6MHz	60MHz
Impedance (R/C)*	1MΩ /180pf	10MΩ /22pf

Part No.	Product No.	1	10	50
22891	LF101E★	$19.95	$17.95	$15.95

JAMECO® 100MHz Modular Oscilloscope Probe



- BNC male connector
- Hook and pointed probe
- Alligator clip ground wire
- 5' cable
- Max: 600VDC
- Weight: 0.3 lbs.

** *with oscilloscope input 20pf*

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	60MHz
Bandwidth (3dB)	6MHz	100MHz
Impedance (R/C)**	1MΩ /150pf	10MΩ /14pf

Part No.	Product No.	1	10	50
66149	LF210A	$29.95	$26.95	$23.95

JAMECO® 250MHz Oscilloscope Probe



- BNC male connector
- Hook and pointed probe
- Alligator clip ground wire
- Max: 600VDC
- 5' cable
- Includes extra probes • Weight: 0.3 lbs.

*** *with oscilloscope input 20pf*

Attenuation	x1	x10
Bandwidth (1dB)	3MHz	150MHz
Bandwidth (3dB)	6MHz	250MHz
Impedance (R/C)***	1MΩ /150pf	10MΩ /14pf

Part No.	Product No.	1	10	25
140687	LF290	$39.95	$35.95	$31.95

TRIPLETT Fox and Hound 2 Probe Wire Tracing Set



- Units operate on 9V batteries (not included)

Fox features:

- Generates 3 distinct tones usable for wire tracing
- LED indicator for continuity
- Line powered in tone mode
- Supplies talk power to a handset or telephone
- Size: 3.6"L x 2.4"W x 1.0"H
- Tone output level: +3dBm, 600Ω
- Max. continuity/talk current: 35mA (shorted leads)

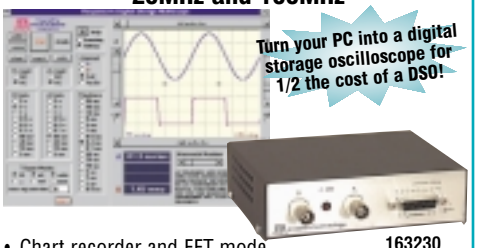
Hound 2 Probe features:

- Streamlined case design • Adjustable volume control
- LED indicator intensifies as signal gets stronger
- Hi-gain & hi-impedance amp • Mylar cone speaker
- Size: 7.2"L x 1.4"W (barrel) x 1.9"Dia. (speaker)

Carrying Case (P/N 155141): 8.5"L x 6.5"W

Part No.	Description	Wt. (lbs.)	1	10
155133	Wire tracing set	0.6	$89.95	$79.95
155141	Carrying case	0.2	24.95	22.49

mission technology PC-MultiScope 20MHz and 100MHz



163230

- Chart recorder and FFT mode
- Includes parallel port cable, AC adapter, alligator clip probe, Windows® 3.1/95/98 software
- One-year warranty

142834: PC-MultiScope 2

- 20MHz sampling; dual channel
- 1mV to 10V per div.; 10MHz bandwidth; ext. trigger
- Triple power supply; 5VDC @ 500mA and ±0-7VDC @ 150mA
- Size: 5.7"L x 6.7"W x 1.8"H • Weight: 3.8 lbs.

163230: PC-MultiScope 3, "e-LAB"

- 100MHz sampling; dual channel
- 5mV to 5V per div.; 20MHz bandwidth; ext. trigger
- 0-4MHz Sine and Square wave signal generator
- Triple power supply; 5VDC @ 500mA and ±0-8VDC @ 250mA
- Size: 4.3"L x 5.0"W x 1.5"H • Weight: 3.8 lbs.

Part No.	Description	1	10
142834	PC MultiScope 2 (20MHz)	$349.95	$319.95
163230	PC MultiScope 3 (100MHz)	549.95	499.95

velleman Digital Storage Scope & Software for PC

32MHz Sampling Rate



- System requirements: IBM 386 or better compatible; 460KB available RAM; math coprocessor required for true RMS and spectrum analyzer; parallel port
- Oscilloscope; two channel; 32MHz sampling rate; 64MHz (only in Windows®) oversampling rate; 10mV to 5V/division; 100ns to 100ms / division; pretrigger display function
- Spectrum analyzer: 0-16MHz frequency range; 32MHz sampling rate; linear or logarithmic time scale; FFT resolution at 2048 lines; FFT ch 1 or ch 2 input
- Transient recorder: 20ms-2000s / div time scale; 9.4 hrs recording time per screen
- Includes 9VDC transformer, cable, software and user's manual • Weight: 3.1 lbs.
- Size: 9.0"L x 6.5"W x 1.5"H

Part No.	Description	1	10
155504	PC digital scope	$369.95	$339.95

Part No.	Description	Price
181690	Scope-It 3.5" software	59.95

TRIPLETT AC Voltage Detector

"Sniffs Out" AC Voltage



- Test for the presence of AC voltage on: outlets, circuit breakers, extension cords, light switches, power tools and AC motors
- UL listed
- Non-contact voltage probe • AC range: 50V-600V
- Visual and audible alerts • Pocket clip
- Weight: 0.1 lbs. • Five-year warranty

Part No.	Description	1	10
154907	AC voltage detector	$19.95	$17.95

Alligator Clip Leads (10)



- 24 AWG wire
- Color-coded, 15" long
- Insulated alligator clip on each end
- 10 per pkg. in assorted colors

Part No.	Description	1	10	100	1000
10444★	Alligator leads	$2.75	$2.49	$2.29	$1.95

Insulated Alligator Clips (2)



- Color coded
- Jaw opening .375"-0.5"
- Accepts standard banana connector
- Insulated barrel
- Solder strap and pre-drilled hole for 6-32 self threading screw • Size: 2.3"L x 0.5"W
- Includes one red and one black clip

Part No.	Description	1	10	100	1000
70990	Alligator clips	$.49	$.39	$.35	$.29

Mini-Clip Test Leads (5)



Spring loaded, these mini-clips hook easily to IC pins for testing.

- Set of five: red, blue, green, black and yellow
- 26 AWG to 300V CSA/UL approved wire • 14" length

Part No.	Description	1	10	100	1000
135298	Mini test leads	$9.95	$8.95	$7.95	$6.95

Mini Test Clips (2)



- Sets include one black and one red hooked probe clip
- Material: plastic

Part No.	Description	1	10	100
114809	1.75" mini test clips	$1.49	$1.19	$1.09
114817	3.5" mini test clips	1.75	1.39	1.25

19/16" Banana Plugs (2)



- Set screw connection
- Standard banana spring plug
- Additional 6-32 threaded hole for additional connection reliability
- Insulating sleeve is threaded to banana plug body
- Includes one red and one black plug (2)
- .1875" lead opening • Size: 1.6"L x 0.4"Dia.

Part No.	Description	1	10	100	1000
72194	Banana plugs	$1.25	$1.05	$.89	$.75

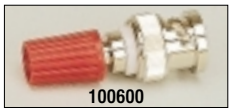
21/4" Banana Plugs (2)



- Nine rib spring plug
- Will accept up to 0.1" diameter wire
- Set screw connection
- Each plug equipped with hole for interconnection
- Insulting sleeve fits snugly over copper post
- Includes one red and one black connector
- Size: 2.3"L x 0.3"W

Part No.	Description	1	10	100
137525	Banana plugs	$2.95	$2.49	$2.29

Single Binding Posts to BNC Male



- Adapts BNC female connector to single binding post/banana plug
- Binding post with captive thumb nut
- Accepts standard banana plugs
- Operating voltage: 500 VRMS
- Brass nickel plated • Size: 1.4"L x 0.6"Dia.

See page 61 for BNC Connectors

Part No.	Description	1	10	100
100618	Black binding post	$1.95	$1.49	$.99
100600	Red binding post	1.95	1.49	.99

BNC Test Cable Assemblies





BNC connectors are designed for signal frequencies into the gigahertz range, making them ideal for communications, video and test equipment.

- BNC male • Length: 39"

Part No.	Description	1	10	50	100
11421★	To micro hook RG174	$3.49	$2.95	$2.65	$2.39
11463★	To mini hook RG174	3.49	2.95	2.65	2.39

Double-Banana Plug to Alligator Clips Test Cable



- Red and black rubber boot
- 4" lead wire
- Length: 3'

Part No.	Description	1	10	50	100
107422	Double-banana plug to alligator clips	$3.95	$3.49	$2.95	$2.49

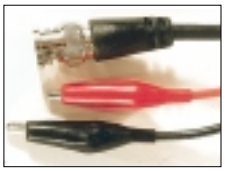
Mini Clip to Banana Test Cables



- Available in black or red
- Plunger type action
- Positive connection that won't disconnect from components
- Banana plug connection on opposite end
- Length: 3.5' • 20 AWG insulated wire

Part No.	Description	1	10	100
21856	Black test cable	$3.49	$2.95	$2.49
21864	Red test cable	3.49	2.95	2.49

BNC Male Test Cable



Permits BNC assembly to be used as a test cable. Upper connection: two alligator clips – red 5.5" 22 AWG wire; black 9" 22 AWG wire. Lower connection: 23" RG/58U cable with male BNC connector (UG260/U).

Part No.	Description	1	10	100	1000
11383★	BNC cable	$2.95	$2.49	$2.29	$1.95

BNC Standard Double Banana Plugs

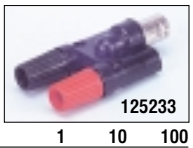




Permits BNC cables to be used with equipment having banana jacks. Lower connection: BNC upper connection double banana plug on .750" centers. Cross holes .166" diameter in body provide side stack-up connections.

Part No.	Description	1	10	100
11439	BNC banana plug (F)	$3.25	$2.75	$2.49
125225	BNC banana plug (M)	3.25	2.75	2.49

Double Binding Posts – Dual Banana



- Red/Black design
- BNC to double binding post

Part No.	Description	1	10	100
125233	BNC-female bind post	$2.95	$2.49	$2.29
99354	BNC-male bind post	3.25	2.75	2.49

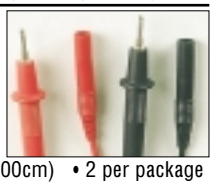
Banana to Banana Test Leads (10)



- Stackable
- Color coded 2 each (red, yellow, blue, black, white)
- 18 AWG wire
- 9.8" long (25cm)
- 10 per package

Part No.	Description	1	10	25
77841	Test leads	$19.95	$17.95	$15.95

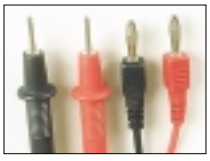
Protected Banana Style Multi-Meter Test Probes (2)



- Threaded/pointed test tip
- Black and red color coded
- 18 AWG wire • 42" long (100cm) • 2 per package

Part No.	Description	1	10	25
77737	Protected probes	$5.95	$5.35	$4.95

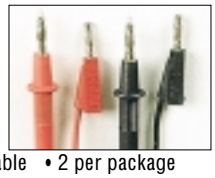
Standard Banana Style Multi-Meter Test Probes (2)



- Black and red color coded
- 18 AWG wire • 2 per pkg.
- 42" long (100cm)

Part No.	Description	1	10	25
77745	Banana probes	$5.95	$5.35	$4.95

Stackable Banana Style Multi-Meter Test Probes (2)



- Black and red color coded
- 18 AWG wire
- 42" long (100cm) • Stackable • 2 per package

Part No.	Description	1	10	25
77770	Stackable probes	$4.49	$3.95	$3.49

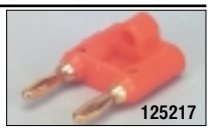
Breadboard Pin to Breadboard Pin Test Leads (20)



- Color coded 4 each (red, yellow, blue, black, white)
- 20 AWG wire
- 5.9" long (15cm)
- 20 per package

Part No.	Description	1	10	25
77825	Breadboard pin leads	$11.95	$10.95	$9.95

Double Banana Test Leads



- Dual gold plated female banana plugs • Stackable

Part No.	Description	1	10	100
125209	Blk banana connector	$1.95	$1.75	$1.49
125217	Red banana connector	1.95	1.75	1.49

Micro Test Clip



- Color: blue
- One piece per package
- Material: plastic

Part No.	Description	1	10	100	1000
153162	1.6" micro test clip	$.75	$.59	$.39	$.29

Double Binding Posts Dual Banana



- Red/Black design
- Screw-mount
- 0.72" between posts
- Size: 1.6"L x 1.4"W • Weight: 0.04 lbs.

Part No.	Description	1	10	100
125196	Screw mount bind post	$2.49	$1.95	$1.75

Pomona® Oscilloscope Probe Set



- Complete accessory kit included
- 48" leads
- Attenuation: X1/X10
- Bandwidth: 15/100MHz (-3dB)
- Risetime: 23.33/3.5ns
- Input resistance: 1/10MΩ
- Capacitance: 64/10.5pF • Ground reference
- Compensation range: NA/10~60pF

Part No.	Product No.	Description	1	10
156451	4550B	Probe kit	$49.95	$44.95

Pomona® BNC Cable Assemblies

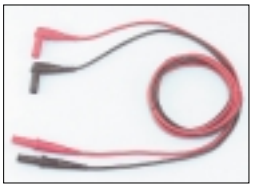

159871

- RG58 C/U 50Ω cable
- BNC male connectors
- Molded strain relief
- Length: 36" (P/N 159871); 60" (P/N 159880)

Part No.	Product No.	1	10	25
159871	2249-C-36	$13.95	$12.49	$10.95
159880	2249-C-60	16.95	14.95	10.95

Pomona® Flexible Test Lead Set (2)

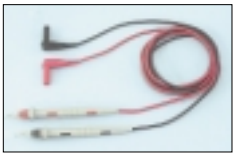
Right Angle to Straight Banana Plug



- Right angle sheathed banana plug to straight sheathed banana plug on 48" long silicone wire
- For use with most hand held and bench DMM (except Simpson) • Set of 2 leads (black/red)
- Conforms to IEC1010 standards
- Rating: 1000 VRMS, 10A, Cat III, P2
- Conforms to IEC1010 standards

Part No.	Product No.	Description	1	10	25
156460	5907A	Test lead	$10.95	$9.95	$8.95

Pomona® Replacement Test Lead Set (2)



- Set of two PVC 48" long insulated leads (black/red)
- Fits most meters from Fluke, HP, Tektronix, Wavetek and Amprobe
- With right angle multimeter connectors

Part No.	Prod. No.	1	10	25
155951	5519A	$11.95	$10.95	$9.95

Pomona® Basic Electronic DMM Test Lead Kit (2)

Kit contains 2 each (black/red):



- Test probes with silicone insulated leads (banana plugs on meter end have no sleeve)
- Slide-on extended tips & alligator clips
- Supplied in a reusable plastic case • 48" leads
- Fits most multimeters and other equipment with banana jacks

Part No.	Prod. No.	Description	1	10	25
155942	5672A	Test lead kit	$22.95	$19.95	$19.49

Pomona® Solderless Banana Plugs (2)

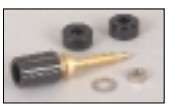

159863 159855 159927

- Nickel plated • Set screws secure leads
- ABS insulation • 5000VDC @ 15A • 50˚C max.
- Color: (1) red; (1) black – per pack

159863: Solderless with safety collar & set screw
159855: Solderless with set screw
159927: Double banana plug with wire guide

Part No.	Product No.	1	10	25
159863	1825-02	$2.95	$2.49	$2.25
159855	1325-02	2.95	2.49	2.25
159927	MDP-02	4.95	4.49	3.95

Pomona® Binding Posts


166393

- Panel mount binding post
- 5-way post also fits non-shrouded banana plugs

Part No.	Prod. No.	Description	1	10	25
166393	3750-0	Black	$3.95	$3.49	$2.95
166406	3750-2	Red	3.95	3.49	2.95

Pomona® Test Lead Holders

155985:
- Max cable dia.: 0.450"
- 11"L • Color: blue

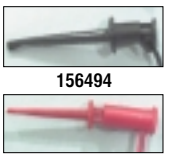

155985

155977:
- Max cable dia.: 0.320"
- 11"L • Color: black

155969: • Max cable dia.: 0.210" • 11"L • Color: orange

Part No.	Product No.	No. of Slots	1	10	25
155985	2708B	9	$6.95	$6.25	$5.59
155977	4408	10	6.95	6.25	5.59
155969	1508	14	6.95	6.25	4.95

Pomona® Minigrabber® Test Clip Cord Kits (10)


156494 156507

- Kit contains 10 pcs. one each of 10 colors: black, brown, red, orange, yellow, green, blue, violet, gray and white • 24" leads

Part No.	Prod.No.	Description	1	10
156494	5523	Mini. patch cord	$34.95	$31.49
156507	5521	SMD Mini. cord	59.95	53.95

Pomona® BNC Male w/ Molded Strain Relief to Minigrabber® Test Clips



- RG 174/U, .100" O.D.
- Rating: 300 VRMS max., +50˚C (+122˚F) max.
- BNC connector: Body: brass, tarnish resistant plating; Dieletric: PTFE; Center contact: gold plated brass
- Strain relief: PVC molded directly to connector
- Length: 36"

Part No.	Prod.No.	Description	1	10
176954	5187-K-36	Minigrabber®	$19.95	$18.49

Pomona® Stackable Banana Test Lead Cables


159898 159901 159919

- 5000V @ 15A • 55˚C max.

159898: 36" leads (2) mini w/ banana
- 45VAC @ 5A max.; beryllium copper contact and glass filled insulation

159901: 24" leads (2) **159919:** 36" leads (2)

Part No.	Product No.	Description	1	10	25
159898	3782-36	Mini w/ banana	$7.95	$6.95	$6.25
159901	B-24-02	Patch cord	8.95	7.95	6.95
159919	B-36-02	Patch cord	9.95	8.95	7.95

Pomona® BNC Male w/ Molded Strain Relief to Minigator® Test Clips



- RG 50C/U, .195" O.D.
- Rating: 45 VRMS max., +50˚C (+122˚F) max.
- Jaws open to .187" max.
- BNC connector: Body: brass, tarnish resistant plating; Dieletric: PTFE; Center contact: gold plated brass
- Strain relief: PVC molded directly to connector
- Length: 36"

Part No.	Prod.No.	Description	1	10
176971	4532-C-36	BNC/minigator®	$14.79	$13.49

Pomona® BNC Male w/ Molded Strain Relief to SMD Grabber® Test Clips



- RG 174/U, .100" O.D.
- Rating: 150 VRMS max., +50˚C (+122˚F)
- BNC connector: Body: brass, tarnish resistant plating; Dieletric: PTFE; Center contact: gold plated brass
- Strain relief: PVC molded directly to connector
- Length: 36"

Part No.	Prod.No.	Description	1	10
176946	5304-K-36	SMD grabber	$20.49	$18.95

Pomona® Double Banana Plug to Minigator® Test Clips



- RG 58C/U
- Rating: 45 VRMS, +50˚C (+122˚F) max.
- Jaws open to .187" max.
- Length: 36"

Part No.	Prod.No.	Description	1	10
176962	2BC-MG-36	Banana/minigator	$19.95	$17.95

Pomona® BNC Male with Binding Post



176920

- Rating: 500VRMS max., +115˚C (+239˚F) max.

Part No.	Prod.No.	Description	1	10
176920	3430-0	Black binding post	$5.39	$4.95
176938	3430-2	Red binding post	5.39	4.95

Pomona® Micrograbber® Test Clip Patch Cord Kit



- Kit contains: 10 Micrograbber® test clip patch cords
- One each: black, brown, red, orange, yellow, green, blue, violet, gray, and white
- 20 AWG wire, .087" O.D.
- Rating: 150V, 3 amps, +102˚C (+216˚F) Max.

Part No.	Prod.No.	Description	1	10
176911	5525	Micrograbber® kit	$49.95	$44.95

Pomona® Binding Post with Double Mounting Base



177025

- Accepts standard banana plugs
- One black and one red binding post
- Material: Binding post: bright tin plated brass; Insulation: polycarbonate
- Rating: 2500VDC, 15 amps, +115˚C (+239˚F) max.

Part No.	Prod.No.	Description	1	10
177025	4243-0	Black binding post	$4.95	$4.49
177033	4243-2	Red binding post	4.95	4.49

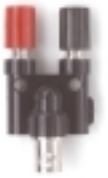
Pomona® BNC Male to Double Stacking Banana Plug



- Rating: 500VRMS max., +50˚C (+122˚F) max.

Part No.	Prod.No.	Description	1	10
176989	1270	BNC/banana plug	$8.95	$8.49

Pomona® BNC Female to Stacking Binding Post



- Rating: 500VRMS max., +50˚C (+122˚F) max.

Part No.	Prod.No.	Description	1	10
176997	1452	BNC/binding post	$8.95	$8.49

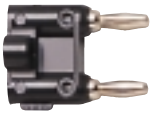
JAMECO® Universal Test Lead Kit



- **Includes (1 pair ea.):** 3 ft. black/red cables, black/ red 4.5" insulated test probes, 0.8" needle probes, spade terminals, (2 sets /4 pieces) red/black insulated alligator clips, banana plug

Part No.	Product No.	Wt. (lbs)	1	10	100
168516	GA5010	0.2	$6.95	$6.25	$4.95

Pomona® Double Banana Plug with Wire Guide



177009



177017

- Set screws secure leads
- Simplifies cable construction or component mounting
- Accepts cables to .215"Dia. max.
- Material: Banana plug/jack: brass; Spring: heat treated beryllium copper; Finish: nickel plated
- Rating: 5000VDC, 15 amps, +50˚C (+122˚F)
- Standard banana plug .210"Dia., banana jack .166"Dia.

Part No.	Prod.No.	Description	1	10
177009	4892-0	Black banana plug	$4.49	$3.95
177017	4892-2	Red banana plug	4.49	3.95

PROBEMASTER Micro-tip Probe Test Leads



- 23K gold tips
- Silicon wire
- 1000V rated
- Length: 3'3"
- Color: red and black
- Soft, comfortable handle
- Spring loaded micro tip
- Includes (8) plunger type tips • Weight: 0.2 lbs.

Part No.	Description	1	10	25
174625	Micro tip test leads	$29.95	$26.95	$23.95

PROBEMASTER 150MHz Oscilloscope Probe

Designed for use with Tektronix, Hewlett Packard oscilloscopes.



- 3 position switch: 1X, ref, 10X
- Bandwith @ 3db: 10MHz (X1); 150MHz (X10)
- Loading: 55/14pƒ 1MegΩ (X1); 14pƒ 10MegΩ (X10)
- Low resistance gold contacts • Cord length: 4'4"
- Weight: 0.2 lbs. • 7 piece kit

Part No.	Product No.	1	10	50
174473	4901-02	$42.95	$38.95	$34.95

Mpi Surface Mount Test Clips

Color Coded



170528

- Can access 0.3mm pitch IC leads
- Stackable side by side
- High reliability: gold plated hook and contact
- High durability: barrel extension is fluorine resin coated
- Includes 3" ground wire with #8 spade terminal
- Wire length: 3" test clip wires

170510: • Clip/wire color: red (6)

170528: • Clip/wire color: 6 assorted (2 ea.)

- **6 assorted colors:** black, red, green, yellow, blue, gray

Part No.	Description	1	10
170510	SMD nano clips (6)	$79.95	$71.95
170528	SMD nano clips (12)	109.95	99.95

EXTECH INSTRUMENTS Hygrometer/Thermometer with Clock and Calendar



- Flip-type
- Push-button switch for setting time/year, alarm, calendar, Celsius/ Fahrenheit, up and down key
- Temperature range: -10°C (+14°F) to 60°C (140°F)
- Temperature accuracy: ±3°
- Humidity range: 2 to 90%
- Calendar range: 1-1-96 to 12-31-2050
- Alarm snooze: every 4 minutes • Includes battery
- Display LCD (.48"H digit) • LCD size: 2.5"W x 1.7"H
- Size: 3.5" square x 1.0"D • Weight: 0.3 lbs.

Part No.	Description	1	10
148806	Hygro-thermometer	$29.95	$26.95

EXTECH INSTRUMENTS Clock, Thermometer, and Hygrometer

Large, easy-to-read face!



- Measures time, atmosphere humidity and temperature
- Requires one AA battery (not included) P/N 151087 (pg 74)
- Size: 8.4"Dia. x 1.2"Thick
- Weight: 1.0 lb. • One-year warranty

Part No.	Description	1	10
155774	Extech clock	$39.95	$35.95

Photon Micro-Lights® Keychain With New Switch for Continuous Light



163248 163256 163264

- Shines astonishingly bright
- Lights any path
- Micro size (same weight as a quarter) • Visible for more than a mile
- Lifetime warranty • Lithium battery included

Part No.	Description	1	10
163248	Red Micro-Light® keychain	$17.95	$15.95
163256	White Micro-Light® keychain	17.95	15.95
163264	Blue Micro-Light® keychain	17.95	15.95

EZ DIGITAL 20MHz Dual Trace Oscilloscope

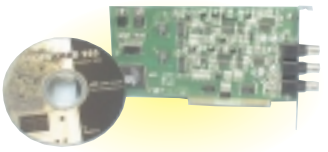


- 6" rectangular high resolution blue CRT with internal graticule & scale
- Vertical deflection: 5mV/div to 5V/div in 10 calibrated steps
- Horizontal deflection: .2µS/div to .2S/div in 19 calibrated steps, 1-2-5 sequence
- Max signal input voltage: 250V (DC and peak AC)
- Power requirements: 98-125VAC @ 1A, 198-225VAC @ 0.5A, 50/60Hz, 45W
- ADD function measures sum of two signals
- Includes: two 40MHz probes (X1 & X10), power cord, manual, and block diagram
- Size: 16.4"L x 12.6"W x 5.3"H • Weight: 20.8 lbs.
- Two-year manufacturer's warranty

Part No.	Product No.	Description	1	5
136098	OS5020	20MHz scope	$399.95	$379.95

Protek ISA Digital Oscilloscope Card for Windows® 95

Dual Channel



- 2 inputs per card (BNC connectors)
- Sample rate per channel: 20MS/s
- Resolution: 8 bits
- Amplitude: max. 300V + pk
- Auto setup: 30Hz to 2MHz, 35V p-p max.
- Impedance: 1MΩ 25pF
- External trigger coupling: AC
- Trigger levels: ±3 div • Trigger type: analog
- Time range: 50ns/div to 0.5s/div 1-2-5 22 step
- Input range: 50mV/div to 5V/div 1-2-5 7 step
- System requirements: IBM PC 486, Pentium® or compatible; 8MB of RAM (16MB recommended); VGA graphics card and monitor; 10MB of free hard disk space; (1) 8-bit ISA slot • One-year warranty
- Includes CD-ROM software, driver, manual and probes
- Size: 7.2"L x 3.6"W • Weight: 0.8 lbs.

Part No.	Description	1	10
153568	Oscilloscope card	$249.95	$224.95

Quicktech '98 Diagnostic Software

Self-booting software for 386, 486 and Pentium®/II/ MMX/III/AMD Athlon



- Verify proper operation and troubleshoot failures of all major PC components: hard drives (MFM, RLL, IDE, SCSI); floppy drives; base, extended and external cache RAM; VGA/EGA/VESA – compliant video cards; keyboard; monitor; printer; and I/O ports
- 48 hour burn-in mode for lengthy testing
- Floppy drive head cleaning function • Wt.: 0.5 lbs.
- Includes loopback testers for DE9 and DB25 serial and DB25 parallel ports, manual and 3.5" disk

Part No.	Description	1	10
134826	QuickTech '98 software	$129.95	$116.95

FORE-FRONT™ Troubleshooter Software

The troubleshooter is a self-booting program with its own operating system that bypasses DOS for accurate hardware component testing. Isolates hardware problems from operating system problems.



- Printed test report record
- Comprehensive tests of on-board and peripheral hardware • PC/XT/AT and compatible computers
- 99+ hours burn-in and soak testing • Wt.: 0.9 lbs.
- Low-level formats IDE drives • One-year warranty

Part No.	Description	1	10
126130	Troubleshooter software ...	$199.95	$179.95

Universal EPROM Programmer

Parallel Port Interface



- System requirements: IBM compatible PC; 8MB RAM; 6MB hard disk space; DOS version 5.0 or higher; Windows® 9X/NT4; parallel port in SPP or ECP mode; and serial or PS/2 mouse
- Input voltage: 15VAC or 8 AA batteries (not included)
- Programs 8 and 16 bit EPROM, paged EPROM, parallel and serial EEPROM, serial EPROM, NVRAM, BPROMS, PAL, GAL, PEEL, PALCE, EPLD, and over 400 microcontrollers
- Package supports up to 48-pin DIPS
- Full support for 1.8V, 2.7V, 3.3V, and 5V devices
- Supports Intel Hex, Motorola S-record, Hex auto recognition TekHex, Extended TekHex, ASCII, Raw Binary, Octal, MOSTech, Altera POF, Altera JAM and other file formats • Weight: 4.9 lbs.
- Device operations: file, load, edit, save, read device, device checksum, verify data, verify signature, blank check, bit test, device erase, over-program
- Built-in IC tester for 7400/4000 series, SRAM & DRAM
- Includes 6 foot parallel cable, 15VAC adapter, installation guide, programmer, CD-Rom software, and 3.5" drivers • Size: 9.6"L x 6.2"W x 2.4"H

Part No.	Description	1	5
173294	Universal EPROM Prog.	$999.95	$939.95

BK PRECISION Parallel Port 16KB - 32MB Universal IC Programmer and Tester



- System requirements: IBM PC/XT/AT/386/486/ Pentium®, DOS or Windows® 95/98 and open parallel port
- Programs serial (E)PROM, EPLD, GAL, PEEL, microcontrollers and Flash PROM
- Auto search device select functions supports E(E)PROM and Flash memory
- Auto configures for host parallel port
- Supports JDEC, Intel Hex, Motorola S Records, Binary Tektronix Protocol and ASCII file formats
- 1500 plus device library
- Device functions: blank check, read program, verify, checksum and encryption
- Buffer features: clear, edit, fill, file load, file and file save • 48-pin universal ZIF socket
- Programming algorithms: normal, intelligent, quick pulse and flash programming
- Includes power supply, manual, 3.5" disk, IC module and cable
- Size: 8.8"L x 5.8"W x 1.5"H • Weight: 4.6 lbs.

Part No.	Model/Product No.	1	5
163184	BK846 programmer	$599.95	$549.95

Linear IC Tester

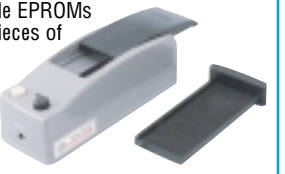
Identify and test op amps, comparators, optocouplers, transistor arrays, analog switches and voltage regulators.



- Tests 14 to 24-pin devices
- Auto feature lists type and device number
- Display: 16 x 1 character LCD dot matrix
- Uses (2) 9V batteries or 9V DC adapter (included)
- Size: 6.4"L x 4.4"W x 1.8"H
- Weight: 1.7 lbs. • One-year warranty

Part No.	Description	1	5
130147	Linear IC tester	$599.95	$569.95

HI-LO SYSTEMS EPROM Eraser



- Erases all UV erasable EPROMs
- Holds a total of 16 pieces of 32-pin EPROMs
- Has an upper and a lower chamber for erasing
- Includes a variable timer which turns eraser off at the end of the selected time period; can be set between 10 to 60 minutes
- AC adapter included (9VDC @ 600mA)
- Special conductive foam liner eliminates static build-up
- Size: 8.5"L x 2.8"W x 2.8"H • Weight: 1.6 lbs.
- One-year warranty

Part No.	Description	1	10
121267	EPROM eraser	$149.95	$134.95

UVP EPROM Erasers and Accessories

66042:



66042

- Erases all EPROMs
- Erases 1 chip in 7 minutes
- Special conductive foam liner eliminates static build-up
- Battery operated. Four AA batteries required (not included). Recommended P/N 32627 (see below)
- UV intensity: 6.5mW/cm²
- Size: 6.8"L x 1.5"W x 2.3"H • Weight: 0.8 lbs.
- One-year manufacturer's warranty

15712:



15712

- Erases all EPROMs
- Erases 1 chip in 15 min.
- Erases 8 chips in 21 minutes
- Maintains constant exposure distance of 1"
- Special conductive foam liner eliminates static build-up
- Built-in safety lock to prevent UV exposure
- Complete with holding tray for 8 chips
- UV intensity: 6.8mW/cm² • One-year warranty
- Size: 9.0"L x 3.7"W x 2.6"H • Weight: 2.3 lbs.

Part No.	Description	1	10	25
66042	Portable EPROM eraser	$59.95	$53.95	$48.95
15712	8-chip EPROM eraser	119.95	109.95	99.95

Part No.	Accessories	Price
34382	Replacement lamp for 15712	$34.95
13864	Conductive foam(12"x24"x0.25")	7.95
32627	'AA' Ni-Cad batteries (for 66042)	1.95

512K-Two Socket E(E)PROM Programmer

A compact unit that operates in two modes: "STAND ALONE MODE", which allows you to use it as a portable unit or in "REMOTE CONTROL MODE", which uses software to interface with your printer port.



FUNCTIONS
Stand alone mode
- Functions Set - Blank check
- IC Type select - Program
- Verify and check sum
Remote control mode
- Type - Read - Program
- Verify - Disk - Help
- Process - Parameter

- Programs EPROMs up to 25V, Flash EPROMs 5V and 12V, EEPROMs, and SRAMs
- 2 sockets for master/ slave operation
- For stand alone mode use 1-2 (9V) batteries (not incl.), P/N 151095 (pg 74) or 12VDC @ 500mA adapter (incl.)
- Includes manual, cable and 3.5" disk
- Size: 6.4"L x 4.3"W x 2.2"H
- Weight: 2.1 lbs. • One-year warranty

Part No.	Description	1	10
130155	EPROM writer	$269.95	$239.95

HI-LO SYSTEMS 1 Socket 16KB -8MB E(E)PROM Programmers



- Programs EPROMs, EEPROMs, and Flash memories
- Programs 16Kbits to 8Mbits EPROMs
- Programming speeds/algorithms: normal, intelligent, and quick pulse
- File formats supported: Intel Hex, Motorola S Hex, Tektronix Hex, and binary • Maximum pins: 32
- Address available: 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 2A0, 2B0, 2C0, 2D0, 2E0, 2F0
- Menu driven software
- Full screen buffer editor
- 2 & 4-way binary file splitting and shuffler programs
- Includes adapter card, software, manual and 3' cable
- IBM PC/XT/386/486 compatible
- One-year warranty
- Size: 7.0"L x 5.0"W x 0.7"H • Weight: 2.4 lbs.

Part No.	Description	1	10
132468	1 socket 16Kbits-8Mbits..	$249.95	$224.95

16-Bit Active Slot PC Extension Interface



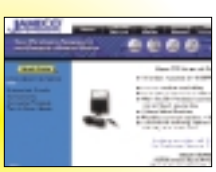
Gives you three additional expansion slots with the advantages that external slots provide including the protection and convenience of a test environment.

- IBM PC/XT and higher compatibles
- Supports following cards: MONO/EGA/VGA/FDC/ HDC, game, and most I/O • Control card installs inside your case with four external slots on the outside
- Two mounting brackets to interface the unit via 37 and 62-pin cables
- Isolates system providing short circuit protection
- Compatible with 8 or 16-bit cards
- Can be powered off the PC or externally using 6-pin connection (P/N 78318 & P/N 78326, pg 58)
- Replacement fuse: 250V-2A (P/N 103915, pg 76)
- Can insert and remove cards while power on
- Power indicator LEDs for each voltage
- Size: 9.5"L x 6.8"W x 1.0"H • Weight: 5.5 lbs.
- One-year warranty

Part No.	Description	1	5
131238	PC slot extender unit	$239.95	$219.95

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HI-LO SYSTEMS Serial Port 16KB-8MB Universal IC Programmer/Tester

Serial Port Interface



- 40-pin universal ZIF socket
- Programs PROMs, EPROMs, EEPROMs, flash memory, serial PROMs, BPROMs, DSP, microcontrollers, PLD/CPLD/FPGA, PALs, GALs, PEEL, and EPLD
- Programs single devices only
- Load file, read master, program, verify, auto, id check, checksum, blank check, erase, secure, protect/unprotect, edit, file transfer, function configuration, self-test functions
- Supports popular file formats including Intel HEX, Motorola S-records, binary, JEDEC fuse map, Altera POF and others • One-year warranty
- Includes programmer, serial cable, software, user's manual, and table top power supply w/ 6' power cord
- System requirements: 486 Pentium® and IBM higher compatible, 4MB of extended memory, serial port, 5MB of free disk space, Windows® 3.1/95/98 operating system and 3.5" floppy disk drive
- Size: 8.8"L x 6.3"W x 1.8"H • Weight: 5.4 lbs.

Part No.	Description	1	5
168348	Serial universal prog.	$899.95	$799.95

ART Applied Reader Technology 1 Socket 1MB and 8MB EPROM Programmers

RS232 Interface

Specifications:

- Operating voltage: 115 VAC
- Interface: RS232
- ZIF socket
- Power consumption: 8VA
- Connector: DB25 (female)
- Will work with any serial communication software such as Procomm Plus
- Motorola s1f, s2f and s3f can convert to binary or ASCII prior to download



82384

Can be operated from any host system equipped with an RS232 interface!

- Baud rate configurable per one digit commands (no faster than 19,200 bps)
- Data bits: 8 • Start/Stop bits: 1
- Parity: none, even, odd, default none
- Data formats: Motorola s1f, s2f, s3f
- Flow control: none, RTS/CTS, XON/XOFF, Default RTS/CTS
- Size: 6.5"L x 4.0"W x 2.3"H
- One-year warranty

82384:

- Programs all current EPROMs up to 512Kbits and the Intel 27C011 (1Mbits); 2716-27512; 2804-8256; also 27CXXX and 28CXXX series
- Selectable VPP from 5V-25V
- Maximum pins: 28 • Weight: 2.4 lbs.

81699:

- The command line interpreter enables the user to enter one or more single character commands at once
- Programs EPROMs up to 8Mbits: 2716-27080; 2804-28256; also 27CXXX and 28CXXX series
- Maximum pins: 32 • Weight: 3.0 lbs.

Part No.	Description	1	10
82384	1Mbits EPROM prog.	$199.95	$179.95
81699	8Mbits EPROM prog.	229.95	209.95

HI-LO SYSTEMS Parallel Port 16KB-8MB Universal IC Programmer/Tester

Parallel Port Interface



Optional adapters available – additional adapters may be special ordered

- 40-pin universal ZIF socket
- Programs PROMs, EPROMs, EEPROMs, Flash memories, bipolar PROMs, PALs, PLDs, GALs & MPUs
- Functional testing of 7400, CD4000, CD4500, series logic devices and DRAM and SRAM memory
- Electronic device identification for TTL
- Programs 16Kbits to 8Mbits EPROMs
- Includes: programmer, cable, menu-driven software and user's manual
- System requirements: 286/386/486/Pentium® or compatible PC; 2MB memory, 3.5" floppy disk drive, MS-DOS version 3.3 or later. Hard disk drive
- Cable length: 3.3' • Color: gray • One-year warranty
- Size: 11.2"L x 9.6"W x 2.4"H • Weight: 8.6 lbs.

Part No.	Description	1	5
137023	Parallel univ. prog./tester ..	$849.95	$779.95

HI-LO SYSTEMS 1 Socket 16KB-8MB Universal IC Programmer/Tester

With Interface Card and Cable



- Programs PROMs, EPROMs, EEPROMs, Flash memories, Bipolar PROMs, PALs, PLDs, GALs & MPUs
- Functional testing of 7400, CD4000, CD4500, series logic devices and DRAM and SRAM memory
- Electronic device identification for TTL
- Programs 16Kbits to 8Mbits EPROMs
- Includes On-Off switch to increase the life of the unit. (Programmer is not automatically turned on every time the computer is powered up. This prevents unnecessary wear of the unit.)
- Anti-static pad on the unit provides a convenient place to put ICs while you work with them
- 40-pin universal ZIF socket • Maximum pins: 40
- Programming speeds/algorithms: normal, intelligent, interactive, quick pulse, and flashrite
- Manufacturer and part number selection to ensure correct programming method
- File formats supported: Intel Hex, Motorola S Hex, Tektronix Hex, JEDEC and binary
- Address available: 278, 378, 3BC
- 2 & 4-way binary file splitting and shuffler programs
- Full screen buffer editor
- Includes: programmer, PC interface card, cable, menu-driven software and user's manual
- System requirements: PC/XT/AT/386/486 or compatible PC; maximum clock speed 50MHz, turbo mode; minimum 640Kbits memory, minimum one 3.5" floppy disk drive, MS-DOS version 3.0 or later. Hard disk drive recommended
- Cable length: 3.3' • Color: gray • Weight: 7.6 lbs.
- Size: 11.3"L x 9.8"W x 2.5"H • One-year warranty

Part No.	Description	Price
104651	Univ. IC prog./tester.....	$699.95

ALPEC Laser Pointer Pens

Class IIIa Laser Product

- Range up to 500 yards
- 670mm red laser
- Power requirements: 2 AAA batteries (included)
- One-year warranty



153605



P/N 153605:
- Color: black
- Size: 5.2"L x 0.4"Dia.
- Weight: 0.14 lbs.

Class IIIa Laser Product



127749



P/N 127749:
- Silver brass
- Size: 5.4"L x 0.4"Dia.
- Weight: 0.1 lbs.

Part No.	Description	1	10
153605	Laser pointer pen	$19.95	$17.95
127749	Laser pointer – pen	19.95	17.95

ALPEC Laser Pointer w/ Key Ring

Class IIIa Laser Product

- Range up to 150 yards
- 650mm red laser
- Red arrow pointer
- Operates on 2 LR44 (coin-cell) batteries (included)
- Color: silver
- Size: 2.1"L x 0.5"Dia.
- Weight: 0.3 lbs. • One-year warranty





Part No.	Description	1	10
153613	Laser pointer w/ key ring	$14.95	$13.49

JAMECO 650nm Line and Dot Lasers

- APC power control
- Focus adjustable w/ locking set screw
- Current stable control
- Wattage: 5mW
- Operating voltage: 3V-5V
- Female 2.1mm power connector center positive
- Size: 3.3"L x 0.9"Dia.
- Weight: 0.2 lbs.
- One-year warranty

Class IIIa Laser Product



167214: Dot (spot) laser module

Distance	Dia. of Dot
5M	5mm
8M	9mm
10M	13mm
15M	20mm



167214

143845: Line laser module
- Laser line width: 1mm
- Laser fan angle: 60˚

143853: Laser module mount

Built to hold laser diode on target.
- X-Y tilt, θ movement
- Weight: 0.5 lbs.
- Tightening screw for tilt adjustment



173243



173243: Cross hair laser diode module
- Operating voltage: 3V-5V
- Wattage: 5mW • Laser fan angle: 60˚
- Female 2.1mm power connector
- Size: 3.0"L x 0.9"D • Weight: 0.2 lbs.

143837: Module regulated power supply
- Output: 5VDC @ 100mA • Short circuit protection
- Input voltage: 95-125VAC, or 190-250 VAC switchable
- Size: 2.0"W x 1.7"D x 9.2"H • Weight: 0.6 lbs.

Part No.	Description	1	10
167214	Dot laser diode module	$99.95	$89.95
143845	Line laser diode module	109.95	99.95
143853	Laser diode module mount	49.95	39.95
173243	Cross hair laser diode mod.	84.95	74.95
143837	Regulated power supply	14.95	12.95

Level with 650mm Laser Diode

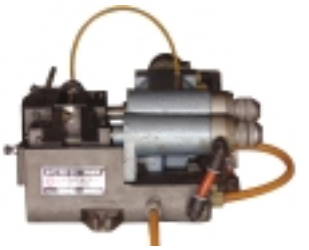
Magnetic and Tripod Mount



- Line and dot lasers
- Laser wavelength: 650nm
- Skew is determined by built-in bubble
- Two magnets at the bottom of the unit for metal to magnet mounting
- Threaded mounting hole at the bottom of unit for tripod mounting
- Includes user manual, (2) AAA 1.5V batteries and hard plastic case
- Size: 5.4"L x 0.8"W x 1.4"H • Weight: 0.9 lbs.

Part No.	Product No.	Type	1	10
169762	TI3284E	Line laser	$69.95	$62.95
169771	TI3284D	Dot laser	49.95	44.95

Ranking Grow Machinery Pneumatic Cable Jacket Stripper



Using an air compressor, this wire jacket stripper will strip the outside jacket of a communications cable at the desired depth and length by adjusting the knobs. Includes additional cutting blades (7 blade set) for 9-25 conductor cables.

Part Number	Weight	Price
181083	50 lbs.	$199.95

CIRRIS Signature 5000 Cable Tester





Cirris Technology has the Signature 5000 cable tester for easy testing of various cables. With the use of their software, you can save to memory or call out a cable configuration, test the cable for continuity, pinout information and so on. The cable tester can test DE9-pin HDDB15-pin, DB25-pin corresponding sockets and test the cable for pinout configuration. Includes 386 system with software, cable tester and printer.

Part Number	Weight	Price
181454	100 lbs.	$999.95

Ranking Grow Machinery Electric Crimping Tool



Once you have used the cable jacket stripper and the hot wire stripper, you are ready to crimp the pins to the cable. The crimping tool requires 14.7KN of force to crimp the pins on the wire. Operating voltage is 110/220VAC wit a 1/4HP motor. Maximum feed is 36mm.

Part Number	Weight	Price
181075	150 lbs.	$399.95

Ranking Grow Machinery Hot Wire Stripper



Using a heating element as the source for stripping wire insulation, this unit will fan out the wires of the communications cable, activate the heating element. Press a foot pedal; it will strip the insulation of a wire to your desired length. Requires 110VAC @ 60Hz.

Part Number	Weight	Price
181067	40 lbs.	$199.95

FOREFRONT POSTPlus Solution Card



PCI, ISA & EISA

Provides real solutions to the problems caused by PC/File Server hardware failures. Three digit display provides solution codes. Because of the on-board processor, it works even if the PC system or other POST code readers will not.
- Identifies boot failures instantly
- Works with any BIOS and can be customized for future BIOS designs
- Reads POST codes from every known IBM compatible system
- First diagnostic board to test PCI motherboards as well as ISA and EISA
- Detects problems with power supply, analyzes systems motherboard, CPU, and adapter BUS signals that can cause lock-up
- Includes card, probe and user manual
- Size: 7.0"L x 1.5"W x 9.5"H (package)
- Weight: 1.0 lb. • One-year warranty

Part No.	Description	1	5
141356	PostPlus diagnostic card	$329.95	$299.95

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JAMECO® ATX 250/300 Watt Power Supplies w/ Power Switch



152194

Compatible w/ P/N 140038 (for 152194) and P/N 153066 (for 155539) cases (see page 163)

- **152194 Output: +3.3V @ 14A, +5V @ 25A, -5V @ 0.5A (250 Watt) +5VSB @ 1.5A, +12V @ 10A, -12V @ 0.5A**
- **155539 Output: +3.3V @ 14A, +5V @ 30A, -5V @ 0.5A (300 Watt) +5VSB @ 1.5A, +12V @ 8A, -12V @ 0.5A**
- Input: 115-230VAC @ 50-60Hz (switchable)
- 20-pin ATX connector • Power on/off switch
- Built-in fan • UL/CSA/TUV approved
- Includes detachable power cord • One-year warranty

152194: • Size: 6.0"L x 5.5"W x 3.4"H • Wt.: 3.5 lbs.
155539: • Size: 5.9"L x 5.5"W x 3.4"H • Wt.: 3.7 lbs.

- AMD Athlon approved

Part No.	Product No.	Description	1	10	25
152194	JE2031	250 watt ...	**$59.95**	**$53.95**	**$48.49**
155539	JE2033	300 watt	**89.95**	**80.95**	**72.95**

JAMECO® ATX Compatible 250/300 Watt Power Supplies



152514

- **152514 Output: +3.3V @ 15A, +5V @ 26A, -5V @ 0.5A (250 Watt) +5VSB @ 1A, +12V @ 9A, -12V @ 0.5A**
- **155811 Output: +3.3V @ 14A, +5V @ 25A, -5V @ 0.5A (300 Watt) +5VSB @ 0.8A, +12V @ 12A, -12V @ 0.5A**
- Input: 115-230V @ 50-60 (switchable)
- 20-pin ATX connector
- Built-in fan • UL/CSA/TUV approved
- Includes detachable power cord • One-year warranty
- Size: **P/N 152514** – 6.0"L x 5.5"W x 3.4"H • Wt.: 3.5 lbs.
  P/N 155811 – 5.9"L x 5.5"W x 3.2"H • Wt.: 4.1 lbs.

Part No.	Product No.	Description	1	10	25
152514	JE8250	250 watt.	**$69.95**	**$62.95**	**$56.95**
155811	JE5300	300 watt...	**79.95**	**71.95**	**64.95**

MEAN WELL AT Compatible 200 Watt Power Supply



- **Output: 5V @ 20A, 12V@8A, -5V @ 0.5A, -12V@0.5A**
- Input voltage: 115/230V @50/60Hz (switch selectable)
- AT compatible connectors
- Built-in fan • CSA/CE/TUV approved
- Includes detachable power cord
- Size: 6.0"L x 4.6"W x 3.4"H • Weight: 2.6 lbs.

Part No.	Product No.	Description	1	10	25
172822	AA-230	200 watt	**$39.95**	**$35.95**	**$32.95**

JAMECO® PC/XT/AT Compatible 150/200 Watt Power Supplies



19465

Compat. w/ JE2023 and JE2021 (previous models)

- **19465 Output: +5V @ 15A, -5V @ 0.5A, (150 Watt) +12V @ 5.5A, -12V @ 0.5A**
- **67467 Output: +5V @ 20A, -5V @ 0.5A, (200 Watt) +12V @ 8A, -12V @ 0.5A**
- Input: 110-220VAC @ 47-63Hz (switchable)
- PC/XT/AT compatible connectors • Built-in fan
- Size: 9.5"L x 5.5"W x 4.6"H • One-year warranty
- Includes detachable power cord
- **P/N 19465:** Weight: 4.7 lbs.
- **P/N 67467:** UL/CSA approved • Weight: 4.3 lbs.

Part No.	Product No.	Description	1	10	25
19465	JE1030	150 watt..	**$59.95**	**$53.95**	**$48.49**
67467	JE1030A	200 watt....	**64.95**	**59.95**	**54.95**

TRIMAG AT Compatible 200 Watt Power Supply



- **Output: +5V @ 19.8A, -5V @ 300mA, +12V @ 7.3A, -12V @ 300mA**
- Built-in fan
- PC/XT/AT compatible connectors
- Input voltage: 115VAC–240VAC @47-63Hz (switchable)
- Includes detachable power cord
- Size: 8.7"L x 5.6"W x 4.7"H • Weight: 5.5 lbs.

Part No.	Prod. No.	Description	1	10	25
177535	BM5200	200 watt.....	**$64.95**	**$59.95**	**$53.95**

JAMECO® AT Compatible 250 Watt Power Supply



Compatible with JE2012, JE2020, JE2030A and JE2032 cases (previous models)

- **Output: +5V @ 20A, -5V @ 0.5A, +12V @ 10A, -12V @ 0.5A**
- Fits in popular mini-vertical and desktop cases
- Input: 110-220VAC @ 50-67Hz (switchable)
- AT compatible connectors • Built-in fan
- Easy to install • One-year warranty
- Size: 5.5"L x 5.9"W x 3.4"H
- Includes detachable power cord
- Weight: 2.0 lbs. • UL, CSA, TUV, CE approved

Part No.	Product No.	Description	1	10	25
174465	LC250C	250 watt..	**$49.95**	**$44.95**	**$39.95**

JAMECO® ATX 200W Power Supply



- **Output voltage: +3.3V @ 14A; +5V @ 20A; +12V @ 8A; -5V @ 0.5A; -12V @ 0.8A**
- Built-in fan
- 20-pin ATX form factor
- UL/CSA/TUV/CE approved
- Input voltage: 100/240VAC @ 50/60Hz (switchable)
- Recommend P/N 38050 (power cord, pg 80)
- Size: 6.0"L x 5.5"W x 4.4"H • Weight: 2.8 lbs.

Part No.	Product No.	1	10	25
174035	JE2130.....	**$54.95**	**$49.95**	**$45.95**

JAMECO® AT Compatible 300 Watt Power Supply with 3.3V Regulator

Compatible with JE2012, JE2020, JE2030A and JE2032 cases (previous models)



- **Output: +3.3V @ 28A, +5V @ 30A, -5V @ 1A, +12V @ 10A, -12V @ 1A**
- 3.3V regulated power connectors to motherboard
- Fits in popular mini-vertical & desktop cases (pg 163)
- Input voltage: 110/220VAC @ 50/60Hz (switchable)
- AT compatible connectors • Built-in fan
- UL/CSA/TUV approved • One-year warranty
- Includes detachable power cord
- Size: 5.5"L x 5.9"W x 3.4"H • Weight: 4.7 lbs.

Part No.	Prod. No.	Description	1	10	25
132185	JE1035	300 watt.....	**$99.95**	**$89.95**	**$80.95**

ASTEC AT Compatible 200 Watt Power Supply



Compatible with JE2012, JE2020, JE2030A and JE2032 cases (previous models)

- **Output: +5V @ 23A, -5V @ 0.5A, +12V @ 8.0A, -12V @ 0.5A**
- Fits in popular mini-vertical and desktop cases
- Input: 110-220VAC @ 50-67Hz (switchable)
- AT compatible connectors • Built-in fan
- Easy to install • One-year warranty
- Size: 5.5"L x 5.9"W x 3.4"H • Mfg #: SA201-3450
- Weight: 3.2 lbs.

Part No.	Product No.	Desc.	1	10	25
19529	JE1034	200 watt..	**$39.95**	**$35.95**	**$32.95**

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JAMECO® USB PCI Input/Output Card

USB-A Connector – 2 USB Ports



- Uses VIA VT83C572 controller chip
- Dual USB-A female ports
- USB specification V.1.0 compatible
- Plug and Play compatible
- USB legacy BIOS supports
- Operates in USB-aware operating system (Win® 95, Win® 98)
- Includes user manual • One year warranty
- Size: 4.7"L x 2.0"W • Weight: 0.3 lbs.

Part No.	Description	1	10	25
155299	PCI USB card	$29.95	$26.95	$23.95

JAMECO® PCI to USB I/O Card

USB-A Female Quad Port

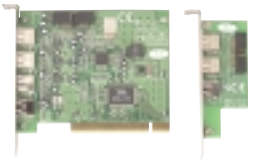


- System requirements: 486DX2-66 processor or higher (Pentium® processor recommended); available PCI slot; Windows® 95/98; 16MB of memory
- VIA VT83C572 chipset
- Quad USB-A female ports
- 1.5Mbps low speed or 12Mbps full speed transfer rate
- Plug and play capability with external peripherals
- Auto detects speeds and connection of device
- Compliance w/ USB spec rev 1.0 • One-year warranty
- PCI specification V.2.1 compliant • Size: 4.7"L x 3.5"W
- Weight: 0.3 lbs. • Includes user's manual

Part No.	Description	1	10	25
172953	PCI USB card	$49.95	$44.95	$39.95

JAMECO® PCI to USB Input/Output Card

7 USB-A Female Ports



- System requirements: 486DX-66 or higher compatible (Pentium® processor recommended); one PCI slot; Windows® 95; 16MB of RAM
- VIA VT83C572 chipset • USB spec V.1.1 compatible
- Seven USB-A female port output connectors
- Fully plug and play compatible
- Intel UHCI (Universal Host Controller Interface) V.1.1 register compatible • One-year warranty
- Includes user's manual and 9" extension cable
- Size: (extension board) 1.5"L x 2.9"W
- Size: (main board) 4.8"L x 3.6"W • Weight: 0.5 lbs.

Part No.	Description	1	10	25
172961	PCI USB card	$69.95	$62.95	$56.95

JAMECO® ISA Dual Port Game Card



- IBM PC/XT and higher compatibles
- Enables two people to play a game at the same time
- Uses standard IBM type joysticks
- Two game ports
- One-year warranty • Weight: 0.2 lbs.

Part No.	Description	1	10	25
105515	Game card	$11.95	$10.49	$9.49

JAMECO® Internal 4-port USB Hub

By connecting this internal card to your existing USB port on your motherboard, you can expand a single output to four outputs.



- System requirements: Windows® 95 OSR 2.0 above or Windows® 98, USB host controller on board
- One USB-B female upstream port and four USB-A female downstream port
- Real plug and play and hot-plugged devices
- Supports self power mode
- Supports up to 127 physical devices
- Over current detection and protection per port
- Supports 1.5Mbps low speed transfer rate and 12Mbps full speed transfer rate
- Includes USB-A male to USB-B male cable, power cable, and manual • Size: 4.0"L x 2.6"W • Wt.: 0.5 lbs.

Part No.	Description	1	10
172751	4-port USB internal hub	$39.95	$35.95

JAMECO® USB 4-Port Hub

USB-A Female

Plug & Play! Daisy Chainable!

Price Reduction



- System requirements: Windows® 95 OSR 2.0 or Windows® 98; PC with USB port
- USB-A female (4)
- Supports throughput up to 12 Mbps as well as OHCI (open host controller interface) and UHCI (universal host controller interface)
- Auto selected self powered and bus powered modes
- Over current protection and detection per port
- Hot swappable • One year warranty
- Size: 5.0"L x 2.8"W x 1.0"H • Weight: 1.5 lbs.

Part No.	Description	1	10
155678	4-port USB hub	$29.95	$26.95

JAMECO® USB 3-port Hub

(with Serial / Parallel Port Converter)



- System requirements: Windows® 95 OSR 2.0 or Windows® 98 and PC with USB port
- Supports throughput up to 12Mbps
- Connectors: USB-B female input; 3 USB-A female output; DB25 female output; DE9 male output • LED indicator for link status
- Includes user's guide, 5VDC @ 2A center negative power supply, and USB-A male to USB-B male cable
- Size: 5.4"L x 3.0"W x 0.9"H • Weight: 1.2 lbs.

Part No.	Description	1	10
172785	3-port USB hub	$99.95	$89.95

USB Manual Switch Box



- 4 USB devices (printer, speakers, camera, and scanners) to 1 computer
- Input connector: (1) USB-B female
- Output connector: (4) USB-A female
- Easy to install
- Push button type switch
- Size: 3.0"L x 2.8"Wx 1.5"H • Weight: 0.3 lbs.

Part No.	Description	1	10
164136	4 devices to 1 computer	$19.95	$17.95

JAMECO® USB Type A Interlink Cable

Host to Host Communication



- 6' USB-A male to USB-A male cable
- System requirements: 486DX-66 or higher compatible; 4-pin USB port; Windows® 95/98/NT
- Single chip (ASIC) USB host to host communication
- High speed data transfer from 4Mbps to 8Mbps
- Single cable solution for data communication
- Includes 3.5" USB to USB drivers • Weight: 0.4 lbs.

Part No.	Description	1	10	25
164030	USB interlink	$49.95	$44.95	$39.95

JAMECO® USB Cables



175417 169359 175425

Connect your peripherals with these USB cables.

- Color: ivory
- **169539/169367:** Series A (M) to series B (M)
- **175417:** Series A (M) to series B (F)
- **175433/175425/175541:** Series A (M) to series A (M)

USB A to B

Part No.	Description	1	10	25
175417	USB A-B cable 3'	$3.95	$3.49	$2.95
169359	USB A-B cable 6'	4.95	4.49	3.95
169367	USB A-B cable 10'	6.95	6.25	5.59

USB A to A

Part No.	Description	1	10	25
175425	USB A-A cable 3'	$3.95	$3.49	$2.95
175433	USB A-A cable 6'	4.95	4.49	3.95
175441	USB A-A cable 10'	6.95	6.25	5.59

JAMECO® USB-A Network Cable

17 Host to Host Connection



- System requirements: Intel compatible 486DX4-100MHz or higher; one standard USB port; Windows® 98
- USB host to host communication
- Construct USB network up to 17 hosts with USB hub (recommend P/N 155678, left)
- Maximum data transfer rate: over 5Mbps
- Sharing resources such as printers, CD-ROMs, modems, and scanners
- Support TCP/IP, NetBEUI, IPX/SPX protocols
- Compliant with USB spec version 1.1
- Hot PNP for easy use • Includes 3.5" USB device driver
- Cable length: 6' USB-A to USB-A male connectors
- Weight: 0.4 lbs. • One-year warranty

Part No.	Description	1	10	25
172970	USB network cable	$59.95	$53.95	$48.95

USB-A to PS/2 Mini DIN 6 Adapter



- System requirements: IBM PC/AT compatible system, Windows® 95/98/NT, and USB-A
- Input connector: 4-pin USB-A male connector
- Output connectors: (2) 6-pin mini DIN connectors
- Complies to USB specification 1.1
- Power consumption: 500mA • CE approved
- Supports energy saving suspend and remote resume operations • Plug and play compatible
- Includes user's guide • Cable length: 30"
- Size: (unit) 2.3"W x 2.7"D x 1.1"H • Weight: 0.3 lbs.

Part No.	Description	1	10	25
168751	USB-A to PS/2	$39.95	$35.95	$31.95

USB-A to Ethernet (RJ-45) Adapter



- System requirements: PC or notebook with USB support and Windows® 95/98
- Input connector: 4-pin USB-A female connector
- Output connector: RJ-45 connector (8P8C)
- Complies with IEEE-802.3 10-baseT and Version 1.0 and 1.1 USB standards • Color: blue
- No I/O address or IRQ conflict hassles
- Supports PnP and hot swapping • CE approved
- Bus powered design, no external power source required • Includes 3.5" software and 3' USB-A male to USB-B male cable
- Size: (unit) 1.5"W x 2.2"D x 1.4"H • Weight: 0.4 lbs.

Part No.	Description	1	10	25
168815	USB-A to ethernet	$59.95	$53.95	$47.95

JAMECO® USB Gender Adapters

USB-A to USB-B



169383:
- Series A male to series B female

169375:
- Series A female to series B male • Color: ivory

169375

Part No.	Description	1	10	25
169383	1.3"L x 0.4"W	$6.95	$6.35	$5.59
169375	1.7"L x 0.6"W	6.95	6.35	5.59

JAMECO® USB to Parallel Printer Adapter

(USB-A Male – DB25 Female)



- System requirements: Intel 486DX2-66 or higher compatible; standard USB 4-pin port; Windows® 98/2000/NT5.0
- USB specification Rev 1.1 compliant
- Single chip (ASIC) USB to parallel host to host communication
- USB full speed (12MBps data throughput) communication and bus powered
- Includes 3.5" drivers, 5'6" USB-A to USB-B male cable, and user's manual
- IEEE 1284 (bi-directional parallel interface) compliant
- USB printer class specification 1.0 compliant
- Size: 2.7"L x 2.4"W x 1.0"T • Weight: 0.5 lbs.

Part No.	Description	1	10	25
173008	USB to Parallel Adapter	$39.95	$35.95	$31.95

JAMECO® USB to RS232 Serial Converter

USB-B Connector



- Minimum system requirements: IBM compatible PC with Pentium® processor and USB connectivity, Windows® 98/OSR 2.1 & 16MB of RAM
- Non-power consumption
- Real Plug and Play and Hot-Plugged device
- 1 upstream port with USB-B female connector
- 1 downstream port with DB25 female connector
- Complies with USB specification Rev. 1.0
- Supports full and low speed devices
- Automatic USB protocol handling
- Includes 6' USB-A male to USB-B female cable and 3.5" driver diskette
- Size: 3.0"L x 2.2"W x 0.8"H • Weight: 0.6 lbs.

Part No.	Description	1	10
164048	USB-B to serial converter	$49.95	$44.95

JAMECO® 4 Conductor USB Cable



- 150 volts
- Temperature rating: 80˚C
- Red and black wire: 24 AWG stranded (7/32)
- Green and white wire: 28AWG stranded (7/36) • UL/CSA approved

✳ **Prepackaged: please order in increments of 25', 100' or 1000'**

Part No.	Description	25 ft.	100 ft.	1000 ft.
173139	USB cable	$6.75	$20.00	$160.00

JAMECO® USB-A Female Cable



- Supports data transfer rates of 12Mbps
- Allows connection of up to 127 peripheral devices • Dual USB-A Female connectors
- Both isochronous and asynchronous data transfers
- Plug & play installation and hot plugging • Wt: 0.1 lbs.
- Built-in power distribution for low power devices

Part No.	Description	1	10	25
144813	USB-A panel mount	$6.95	$6.25	$5.59

ATEN Male USB Printer Cable

USB-A Connector



- Full compliance with the USB spec V.1.0
- 4-pin USB-A male to 36-pin male centronics connector
- Supports true bi-directional communication
- Applicable to standard and bi-directional printers
- Weight: 0.4 lbs.

Part No.	Description	1	10	25
155352	6' USB cable	$29.95	$26.95	$23.95

USB 3-Button Trackball



- 4-pin male USB-A male connector
- Ergonomic design with detachable wrist rest
- Removable retaining ring for easy ball removal and cleaning
- Large button design
- Tactile micro-switches for reliable sound and feel
- Opto-mechanical technology for accurate pointing
- 20-6400 dpi variable resolution
- Attached scroll-in mouse program for scrolling, zooming and other functions under Windows® environment • Includes software drivers
- System requirements: computer system with USB female port and Windows® 95/98
- Size: 5.5"L x 4.7"W x 2.0"H • Weight: 1.0 lbs.
- One-year warranty

Part No.	Description	1	10
159100	USB trackball	$34.95	$31.49

JAMECO® USB 3-Button Mouse

USB-A Connector



- For systems with USB ports
- 4-pin USB-A male connector
- Ergonomic design for comfortable feel
- Color: gray
- One year warranty
- Size: 4.4"L x 2.4"W x 1.0"H • Weight: 0.3 lbs.

Part No.	Description	1	10
155686	USB-A ergonomic mouse	$9.95	$8.95

JAMECO® USB PenCam Digital Camera

New Price



- USB Interface
- Compatible with Windows® 98/2000 & ME
- High resolution 352 x 288 **(20 still shots)**
- Low resolution 176 x 144 **(80 still shots)**
- Up to 12 seconds of AVI **streaming video**
- Up to 2 hour battery life (full time usage)
- 10 second self timer
- Requires (2) AAA batteries (not included)
- Includes CD-ROM software bundle, 5' USB cable, camera stand, and camera clip
- CD-ROM software bundle includes Pocket Cam Manager, Photo Express 3.0, Photo Explorer 3.0, COOL 360 1.0, Video Live Mail Plus 3.11b, and Microsoft Net Meeting 5.0 • Weight: 0.4 lbs.
- One-year warranty • Size: 4.8"L x 1.3"W x 0.8"D

Part No.	Description	1	10
177199	Digital PenCam	$89.95	$79.95

JAMECO® USB Fingerprint Sensor



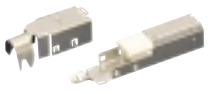
- USB V1.0 compliant
- Access your PC via simple USB port
- Live finger detection, stores personal data securely
- Sensor resolution: 384 x 265 points
- Sensor area: 0.7"W x 0.5"H
- Full compliance with USB plug and play
- Includes sensor unit with 5' cable with USB type A male connector, CD-ROM drivers, and manual
- Size: 2.6"L x 1.6"W x 0.9"H • Weight: 0.5 lbs.

Part No.	Description	1	10
175724	Fingerprint sensor	$199.95	$179.99

USB-A & B Connectors and Pin



159716 USB-A



174060 USB-B



159724

- Voltage current rating: 1A @ 30VAC
- Insulation resistance: 1000MΩ (min)
- Dielectric with standing voltage: 750VAC

159716/174060: USB Male Connectors
- 3 part housing: tin plate over brass and glass fiber
- 4-pins (P/N 159724) required per USB connector
- Housing is easily snapped together



174051 USB-B

161023/174051: USB Female Connectors
- PC mount right angle w/ board locks



161023 USB-A

159724: Male Crimp Pin • Contact brass
- Pin for P/N 159716 and 174060 (4 required)
- Use P/N 159265 for crimping tool (pg 124)

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	1	10	100	1000
159716	USB-A connector (M)	$.55	$.45	$.29	$.25
161023	USB-A connector (F)	.59	.49	.39	.29
174060	USB-B connector (M)	.69	.59	.49	.35
174051	USB-B connector (F)	.55	.45	.32	.25
159724	Crimp pin	✳	.10	.06	.04

Microsoft® 2-Button Mouse



- Serial mouse
- IBM PC/XT and higher compatibles
- Includes Microsoft® setup diskette, DE9 connector and manual
- Size:4.5"L x 2.5"W x 1.4"H
- Weight: 0.6 lbs.

Part No.	Description	Price
111860	2-button serial mouse	$24.95

Microsoft® Intellimouse

Microsoft® Office 97 Compatible



Combines the traditional left and right mouse button with a scroll button that makes it easier to zoom and scroll right at your fingertips.

- 6-pin mini din
- Weight: 0.4 lbs. • One-year warranty

Part No.	Description	1	10
145488	2-button serial with scroll	$29.95	$26.95

JAMECO® 3-Button Mouse



- Serial mouse
- IBM PC/XT and higher compatibles
- Microsoft® mouse compatible
- Size: 4.3"L x 2.3"W x 1.2"H
- Weight: 0.5 lbs.
- One-year warranty

Part No.	Description	1	10	50
104441	Serial mouse	$4.95	$4.49	$3.95

JAMECO® PS/2 Serial

Two Button Mouse



- PS/2 connector (6-pin mini DIN)
- IBM PC/XT/AT/PS/2 and compatibles
- Compatible with all major application software
- Cable length: 4'3" • Includes 3.5" drivers
- Size: 4.4"L x 2.5"W x 1.4"H • Weight: 0.3lbs.

Part No.	Description	1	10	100	500
174326	PS/2 mouse	$4.95	$4.49	$3.95	$3.25

JAMECO® PS/2 Serial Two Button Mouse

No Adapter Required

- PS/2 connector (6-pin mini DIN)
- Compatible w/ IBM PC/XT/AT 386/486
- Opto-mechanical encoder
- Compatible with all major application software
- Dynamic resolution and fast tracking speed
- Cable length: 4' 9" • Includes set up diskette
- Size: 4.2"L x 2.3"W x 1.2"H • Weight: 0.4 lbs.

Part No.	Description	1	10	25
159513	PS/2 mouse	$9.95	$8.95	$7.95

Jameco Mini Mouse Pad

Perfect cramped workspace solution!



- Tough non-skid neoprene backing
- Smooth-gliding cloth surface on top
- Size: 7.0"L x 5.5"W
- Weight: 0.1 lbs.

Part No.	Description	1	10	100
121363	Mini mouse pad	$1.49	$1.25	$.99

DigiSys PS/2 Serial 3-Button Mouse



- Male PS/2 connector (6-pin mini DIN)
- Compatible with IBM PC/XT/AT systems
- Compatible with major applications
- Includes 3.5" driver and utilities diskette
- Size: 4.2"L x 1.2"H x 2.5"W • Weight: 0.4 lbs.

Part No.	Description	1	10	25
166748	PS/2 3-button mouse	$9.95	$8.95	$7.95

QTRONIX® 2-Button Mouse



- Male PS/2 connector (6-pin mini DIN)
- Compatible with IBM, PS/2 and Pentium® compatibles
- Compatible with Windows® 95/98
- Wheel for scrolling • Ergonomic design
- High performance application bundled & easy to setup
- Versatile control panel for productivity
- Includes installation sheet and 3.5" disk drivers
- Size: 4.5"L x 2.5"W x 1.5"H • Weight: 0.5 lbs.

Part No.	Description	1	10	25
170317	Lynx 3D Net	$11.95	$10.95	$9.95

QTRONIX® Trackball with Menu Software



- IBM PC/XT and higher compatibles
- Over 24 software menus to ease use of Lotus, dBase, WordPerfect and more
- Variable resolution (20-6400 dpi)
- Convenient button lock feature for holding while dragging and drawing
- Ergonomic design for comfortable feel
- 3.5" disk • One-year warranty
- Size: 5.5"L x 4.6"W x 2.0"H • Weight: 1.2 lbs.

Part No.	Description	1	10	25
128995	LIBRA 90 MP PRO	$29.95	$26.95	$23.95

QTRONIX® 17-Key Keypad (PS/2)



A compact keypad designed for use with IBM compatible laptops and desktop PC.

- For IBM PS/2 and compatibles
- Installs into 6-pin DIN keyboard connector (no software required)
- Auto-repeat function
- Tactile click - sound and touch
- Switch life of 20 million cycles
- Two key roll over • Size: 5.6"L x 3.4"W x 0.9"D
- Weight: 0.5 lbs. • One-year warranty

Part No.	Description	1	10	25
151811	Scorpius 20PB	$34.95	$31.49	$27.95

QTRONIX® 17-Key USB Keypad



- System requirements: IBM compatible PC, Windows® 98/2000, USB-A port
- Reliable rubber mechanical switches
- USB-A connector
- 17 overall keys with full numeric functions
- Adjustable tile mechanism
- Auto repeat function
- No external power supply needed • Tactile keystroke
- 20,000,000 life cycles per switch
- Size: 3.5"W x 0.9"D x 5.5"H • Weight: 0.5 lbs.

Part No.	Description	1	10	100
171141	USB keypad	$39.95	$35.95	$32.49

QTRONIX® 22-Key RS232 Keypad

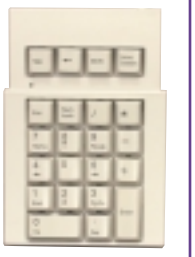


- IBM PC/XT and higher compatibles
- Tactile click-sound and touch
- Auto repeat function
- RS232 DE9 connector
- Includes 3.5" driver diskette and manual
- 9600 bps, data bits: 8, stop bits: 1, start bit: none, no parity
- 2-key rollover • Color: beige
- Weight: 0.8 lbs. • One-year warranty
- Size: 6.2"L x 4.2"W x 1.3"H

Part No.	Description	1	10	25
129357	Scorpius 22RW	$39.95	$35.95	$32.49

QTRONIX® 22-Key Keypad (PS/2)

For Notebooks



- System requirements: IBM PC or notebook and compatibles, Windows operating system, PS/2 port
- 22-keys with full numeric functions
- Auto repeat function
- Adjustable tilt mechanism
- Tactile keystroke
- 20 million life cycles per switch
- No external power supply needed
- Includes manual and PS/2 to 5-pin din (AT) adapter
- Size: 6.2"L x 4.2"W x 1.3"H • Weight: 0.8 lbs.

Part No.	Description	1	10	25
176831	Scorpius 22APW	$39.95	$35.95	$32.49

JAMECO® 18-Key Keypad with Magstripe Card Reader



- IBM PC/AT compatible, AT keyboard interface
- Mechanical key switch
- Bi-directional reading card through reader slot
- Power supplied by computer keyboard port
- Carriage return for card reader is selectable
- Switch selectable for start sentinel (SS) or end sentinel (ES)
- Use Com software to read data
- Magstripe card reader requires separate POS software for direct application use
- Size: 7.1"L x 4.4"W x 1.5"H • Weight: 1.1 lbs.

Part No.	Description	1	10
176276	Keypad w/ card reader	$159.95	$144.95

JAMECO® 84-Key AT Keyboard



- AT/386/486 and compatibles • 84-key layout
- Tactile feed back • Size: 12.8"L x 6.6"W x 1.0"H
- Weight: 2.4 lbs. • One-year warranty

Part No.	Description	1	10	25
114868	84-key AT keyboard	$49.95	$44.95	$39.95

SEGA Win 95 104-Key Keyboard



- IBM AT / PS/2 and higher compatible
- LED indicator for Num, Caps and Scroll Locks
- Use P/N 85500 for AT systems • Ergonomic style
- Tilt mechanism • Tactile key
- 12 function keys • Color: black
- Size: 18.5"L x 7.0"W x 1.0"H • Weight: 2.7 lbs.

Part No.	Description	1	10	25
135482	104-key keyboard	$14.95	$13.49	$11.95

QTRONIX® Win 95 104-Key Keyboard with Jumbo Trackball



- PC/AT/PS/2 compatible w/ DOS 3.0 or higher
- "N-Key" roll-over for quick typists
- Tactile click sound and feel • One-year warranty
- Includes software and AT adapters
- Size: 19.0"L x 6.8"W x 1.4"H • Weight: 3.7 lbs.

Part No.	Description	1	10	25
128717	Scorpius 35MP	$99.95	$89.95	$80.95

QTRONIX® Win 95 107-Key Keyboard



- IBM AT or PS/2 and higher compatible
- Tactile key stroke – high quality rubber mechanical switches • Windows® 95 and 98 compatible
- ACPI 3 keys (wakeup, sleep & power) for Win® 98
- Adjustable tilt mechanism • Detachable wrist pad
- Recommend P/N 85500 (pg 174) for AT type keyboard connectors • Permanently attached 6' cord
- 20,000,000 life cycle per switch • One-year warranty
- Size: 18.5"L x 7.6"W x 1.5"H • Weight: 2.8 lbs.

Part No.	Description	1	10
168381	Scorpius 98 plus series	$14.95	$13.49

QTRONIX® Win 95/98 107-Key PS/2 Keyboard



- IBM PS/2 and higher compatibles
- Designed for Windows® 98 with ACPI keys (wake, sleep and power) • Windows® 95 compatible
- Adjustable tilt mechanism
- Tactile keystroke with high quality rubber mechanical switches • Color: black
- 20,000,000 life cycles per switch
- Size: 18.1"L x 6.3"W x 1.0"H • Weight: 2.2 lbs.

Part No.	Description	1	10
169535	Scorpius 98A	$16.95	$14.95

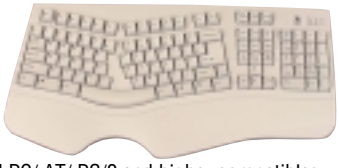
Monorail Win 95 104-Key Keyboard



- For PS/2 systems
- LED indicators for Num, Caps and Scroll Locks
- 12 function keys with separate cursor and numeric keys • Color: black
- Membrane contact technology
- Size: 18.3"L x 6.5"W x 1.5"H • Weight: 1.5 lbs.

Part No.	Description	1	10
154721	Windows® 95 104-keyboard	$7.95	$6.95

JAMECO 107-Key Ergonomic Keyboard for Windows® 95



- IBM PC/ AT/ PS/2 and higher compatibles
- For PS/2 requires adapter P/N 159097 (pg 176)
- Built-in wrist rest
- Membrane switch with tactile feedback
- 10 million life cycles per switch
- Size: 19.0"L x 9.5"W x 1.4"H • Weight: 2.9 lbs.

Part No.	Description	1	10
163774	Win 95 ergonomic keyboard	$29.95	$26.95

Lite-on 89-Key Infrared Wireless Keyboard



- Wireless device integrated text, pointing, and multimedia functions
- 14 extra programmable function, one DRAG key
- Full range mouse control keys
- Infrared transmitting technology (up to 23')
- Includes keyboard, receiver unit, airboard manager software diskettes, users manual, Y cable with two connectors (6-pin keyboard and 9-pin RS232)
- Size: 15.3"L x 7.5"W x 1.5"H
- Weight: 2.9 lbs. • One-year warranty

System requirements: IBM PC or compatible system, Windows® 95 (for Airboard Manager Software), available 9-pin RS232 serial port

Part No.	Description	1	10
145605	89-key wireless keyboard	$69.95	$59.95

AXIOM Water Resistant 101-Key Keyboard



- IBM AT, PS/2 compatibles
- Membrane contact technology
- 5VDC @ 250mA
- Operating humidity: 10% to 95%rh
- Operating temp.: 0 to 55˚C • Color: gray
- Weight: 3.2 lbs. • One-year warranty
- Size: 15.5"L x 7.3"W x 1.8"H

Part No.	Description	Price
141866	Water resistant keyboard	$49.95

QTRONIX® 108-Key Compact Keyboard



- IBM PC PS/2 or higher compatible
- 12 function keys
- LED indicator for Num, Caps, and Scroll Lock
- Supports three Windows® 98 ACPI keys
- High quality rubber mechanical key switches
- Size: 15.5"L x 6.5"W x 1.1"H
- Weight: 1.9 lbs.

Part No.	Description	1	10	25
180347	Scorpius 2KP	$39.95	$35.95	$32.49

SUN Win 95 104-Key Keyboard



- For PS/2 systems
- LED indicators for Num, Caps and Scroll Locks
- 12 Function keys with separate arrow and numeric keys
- Tactile feedback • Tilt mechanism
- Unmarked window keys
- Size: 18.2"L x 7.0"W x 1.5"H • Weight: 2.7lbs.

Part No.	Description	1	10
173649	Windows® 95 104 keyboard	$8.95	$7.95

NMB 101-Key Keyboard Tactile Touch



- For PS/2 systems
- LED indicators for Num, Caps and Scroll Locks
- Use P/N 159089 or 85500 (pg 174 for AT systems
- 12 function keys with separate cursor and numeric keys • Weight: 3.2 lbs.
- Size: 18.0"L x 6.5"W x 1.5"H

Part No.	Description	1	10	25
166836	101-key keyboard	$14.95	$13.49	$11.95

HEWLETT PACKARD 117-Key Multimedia Keyboard for Windows®



- LED indicators for Num, Caps and Scroll Locks
- For PS/2 systems
- Mail key button, HP top tools button, internet button, menu button, lock button, HP customer information button, mute and volume buttons, and 4 shortcut buttons
- 12 function keys w/separate cursor and numeric keys
- Headset and microphone ports
- Adjustable tilt mechanism • Includes 3.5" drivers
- Size: 18.9"L x 7.0"W x 1.6"H • Weight: 4.3 lbs.

Part No.	Description	1	10	25
176874	Keyboard	$29.95	$26.95	$23.95

JAMECO® 117-Key Multimedia Keyboard For Windows



- For PS/2 systems
- LED indicators for Num, Caps, and Scroll locks
- ± volume buttons, mute button, forward / reverse/play/stop button for multimedia, WWW button, MS DOS button, My Doc button, Menu/? button, screen saver button, close button
- 12 function keys w/ separate cursor and numeric keys
- Includes 3.5" drivers and keyboard labels for buttons
- Size: 18.5"L x 7.0"W x 1.8"H • Weight: 3.6 lbs.

Part No.	Description	1	10	25
174334	Multimedia keyboard	$14.95	$13.49	$11.95

QTRONIX® 86 Key Wireless Keyboard Infrared Technology



- Plug and play
- Wireless device integrated text, pointing, and multimedia functions
- 20 hot keys to quickly access internet browser and multimedia performance
- 10 programmable hot keys which can be redefined by user's command
- Compatible with IBM PC which supports PS/2
- Infrared transmitting technology (transmission distance up to 23')
- DIP switch setting for 16 different channels
- Includes keyboard with mini trackball, receiver unit with 6-pin mini DIN (PS/2) male connectors for keyboard and trackball, CD-ROM drivers
- Size: 14.1"L x 6.3"W x 1.3"H • Weight: 2.1 lbs.

Part No.	Description	1	10
176786	86-key wireless keyboard	$49.95	$44.95

JAMECO® Keyboard Drawers

20239:
Elevates CPU and CRT 4.0 to alleviate neck tension.


20239

- External size: 22.0"L x 15.5"W x 4.0"H
- Weight: 8.5 lbs.

72881:
Slides underneath desktop for storage.


72881

- External size: 21.5"L x 12.5"W x 1.5"H
- Includes convenient tray for storing pens and other office supplies • Weight: 4.0 lbs.

Part No.	Description	1	10	25
20239	Desktop mounting	$27.95	$24.95	$22.49
72881	Mounts under desk	16.95	14.95	13.95

JAMECO® Steel Computer Stand

With Casters



- Easy to assemble
- Save valuable work space
- Adjustable range: 4.5" to 7.5"
- Supports IBM PC XT/AT system units
- 3mm steel material
- Weight: 7.5 lbs.

Part No.	Description	1	10	25
180312	Computer stand	$14.95	$13.49	$11.95

JAMECO® 12" Monitor Stand



- For 12" monitors
- Anti-skid feet
- 360° swivel
- 25° tilt
- Color: beige
- Base size: 11"W x 10"D
- Weight: 2.6 lbs.

Part No.	Description	1	10	25
180321	12" monitor stand	$9.95	$8.95	$7.95

JAMECO® 14" Monitor Stand



- For 14" monitors
- Swivels 360°
- Tilts 12.5°
- Color: beige
- Base size: 14"W x 12"D
- Weight: 4.0 lbs.

Part No.	Description	1	10	25
180339	14" monitor stand	$14.95	$13.49	$11.95

Monitor/TV Wall Mount Brackets


181817


133840


156988

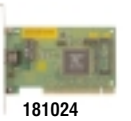
- Assembly required
- Wall mount screws not included
- Color: black
- One-year warranty
- Requires unit base be mounted securely to wall stud

P/N 181817: • Supports up to 66 lbs. • Wt.: 9.0 lbs.
P/N 133840: • Supports up to 60 lbs. • Wt.: 9.5 lbs.
P/N 156988: • Supports up to 165 lbs. • Wt.: 26 lbs.

Part No.	Description	1	10
181817	12"–18" TV wall mount	$32.95	$29.95
133840	14"–18" TV wall mount	29.95	26.95
156988	20"–29" TV wall mount	59.95	53.95

3COM PCI Ethernet Cards

10Mbps and 10 / 100Mbps


181024


181121

- Supports Novell Netware, Windows® NT, LAN, Windows® 3.x / 95
- 32-bit PCI bus
- **181024:** LED indicator for diagnostics, manual, and 3.5" software
- Remote bootable socket
- Weight: 0.5 lbs.

Part No.	Description	Price
181024	UTP (10Mbps)	$14.95
181121	UTP/BNC/AUI (10/100Mbps)	99.95

JAMECO® ISA 8 / 16 Bit Ethernet Cards

10Mbps


180945


180988


181041

- Supports Novell Netware; LAN; Windows® for workgroups; FTP PC / TCP
- IRQ (2, 3, 4, 5, 10, 11, 12) and I/O address selectable
- Auto boot PROM socket
- **180988 / 181041 / 180945 / 180953:** with LED indicators for diagnostics
- Weight: 0.8 lbs.

Part No.	Description	Price
180945	UTP/AUI (8-bit)	$14.95
180988	UTP/AUI/BNC (16-bit)	14.95
180996	AUI/BNC (16-bit)	19.95
181041	UTP (16-bit)	9.95
180953	UTP/AUI (16-bit)	19.95

HEWLETT PACKARD ScanJet 5100C (Color)



- Factory refurbished
- System requirements: 486 or better; Windows® 95; 16MB of RAM or more; VGA monitor (256 colors) or greater; and CD-ROM drive
- Input power: 1200–240VAC@47-63Hz
- 600dpi hardware super sampling; 1200 dpi enhanced
- 36-bit color image processor
- 6ms/line normal exposure rates; 2ms/line fast exposure rate • One pass color flat bed scanner
- 12% to 400% scaling at 300 dpi resolution
- HP intelligent scanning technology: dual image scanning, automatic page decomposition, automatic raster to vector version for black and white line art images
- Maximum document size: 8.5" x 11.7"
- Includes manual and software
- Size: 19.1"L x 12.0"W x 4.9"H • Weight: 12.5 lbs.

Part No.	Description	1	10
181956	ScanJet 5100C	$149.95	$134.95

HEWLETT PACKARD Series 370 Scanner, Copier, and Printer



- Factory refurbished
- Includes manual and software
- Uses HP51629A (black) and HP51649A (color) printer cartridges – not included (see below)

Printer
- 600 x 300 dpi (black and white)
- Letter, legal, A4, executive size media
- Plain paper, inkjet paper, transparencies, envelope media type • 3 ppm (pages per minute)

Fax
- Receives faxes on plain paper
- 20 pages automatic document feeder
- 24 page fax memory • 65 speed dials

Scanner
- OCR software • 300dpi resolution

Copier
- 300 dpi resolution, 8-bit grayscale
- 50 seconds per page • Up to 99 copies
- Reduction of up to 70% of its original size

Part No.	Description	1	10
181948	HP Series 370	$149.95	$134.95

Part No.	Description	Price
182967	HP51629A black cartridge	35.95
182975	HP51649A color cartridge	36.95

JAMECO® ISA 16-Bit Super VGA Card

512KB on Board



- IBM AT and higher compatibles
- 1024 x 768 resolution in non-interlaced and interlaced modes
- Includes manual and software
- Supports 16 colors requires 1MB video RAM
- Output HD DA15 (analog)
- Includes 512KB video RAM, expandable to 1MB by adding one P/N 128688 chips (pg 15)
- Supports VESA standard graphics and text modes
- Emulates VGA, EGA, CGA, MDA and Hercules modes
- Weight: 0.5 lbs. • One-year warranty

Part No.	Description	1	10	25
104660	VGA card	$59.95	$53.95	$47.95

JAMECO® PCI 24-Bit SVGA Graphics Card

4MB on Board



- Drivers support Windows® 3.x/95/98/NT4.0
- SIS 6326 AGP chipset
- 24-bit color @ 800 x 600 resolution
- Refresh rate: 60/75Hz
- Best support for DVD and MPEG-II playback
- HD DB15 female connector
- Includes users manual and CD-ROM
- Size: 5.3"L x 3.5"W • Weight: 0.4 lbs.

Part No.	Description	1	10
167476	PCI accelerator card	$39.95	$35.95

JAMECO® VESA 24-Bit Graphics Accelerator Card

1MB on Board



Increases the speed of graphics and windowing programs by up to 15 times that of standard VGA.

- Intel® 486 and higher compatibles
- Provides 24-bit true color at 640 x 480 pixels, 16M colors
- On board memory: 1MB. Expandable to 2MB using 256K x 16 DRAM P/N 128688 (pg 15)
- Non-interlaced/interlaced modes supported
- Connector: HD DA15 female
- Weight: 0.7 lbs. • One-year warranty

Part No.	Description	1	10
137285	Graphics accelerator	$49.95	$44.95

JAMECO® AGP Graphics Card

8MB memory on board



- System requirements: Pentium® or higher compatible, 8MB of memory, VGA monitor, AGP slot; CD-ROM drive, Windows® 95/98/2000
- NVDIA RIVA TNT2 series 32-bit graphics engine
- High-performance 128-bit 2D/GUI/DirectDraw acceleration • HDDB15-pin female connector
- Texture blend supports multi-texturing, bump mapping, texture modulation, light maps, reflection maps, detail textures
- Per pixel perspective correct texture mapping
- Multiple video windows with hardware color space conversion and filtering
- Video acceleration for DirectShow, MPEG-1, MPEG-2, and indio • Includes manual and CD-ROM drivers
- Size: 5.3"L x 2.3"W • Weight: 0.4 lbs.

Part No.	Description	1	10
177560	AGP graphics card	$59.95	$53.95

JAMECO® AGP Graphics Card

Fully 3D Compatible



- On-board memory: 8MB
- On-board 40-pin and 26-pin video capture connectors
- 3D Labs Permedia
- (2) 64-bit SGRAM GUI and multimedia accelerator • HD DB15 female connector
- MPEG 2 compatible video playback support
- Maximum resolution: 1600 x 1200
- Provides up to 200Hz refresh rate
- DPMS DDC 2B support • Multi-monitor support
- DirectX and OpenGL support • DMA mastering
- Built-in flash ROM for easy VGA BIOS upgrade
- Includes drivers and control software
- Weight: 0.6 lbs. • One-year warranty

Part No.	Description	1	10
159732	AGP graphics card	$59.95	$53.95

JAMECO® PCI 64-Bit 3D Graphics Card

Works with all SVGA Cards

12MB on Board



- System requirements: 60MHz Pentium®; CD-ROM drive; 16MB memory; DOS version 6.2 or higher; Windows® 95/98/NT3.51/NT4.0 • One-year warranty
- Includes both triangle and texture rendering engines
- HDDA15 male and female connectors
- Includes users manual, installation guide and drivers on CD-ROM and cable adapter
- Size: 8.0"L x 4.0"W • Weight: 1.6 lbs.

Part No.	Description	Price
160961	12MB EDO RAM on board	$69.95

JAMECO® 5" Color Monitor

NTSC Video with Audio



This color monitor has both video and audio hook-ups. It can be mounted on a wall or placed on a desktop. Screen can be tilted for better viewing. Speakers on base unit for audio.

- 5" viewable screen
- Requires 12VDC regulated power supply (P/N 162996 – pg 88) • RCA jacks for audio/video
- For camera recommend P/N 169404 (pg 151)
- Size: (unit) 7.5"L x 6.3"W x 2.5"H • Weight: 1.6 lbs.

Part No.	Description	1	10
169412	5" color monitor	$299.95	$269.95

JAMECO® 10" Black and White Security Monitor with Audio

EIA Format



- Input voltage: 120VAC @ 60Hz (2-prong 5' cable)
- 9" viewable screen
- Resolution: 700 line resolution
- LED indicator for power
- Push down front panel for vertical hold and size, brightness, volume, and contrast adjustments, power on/off switch
- Horizontal frequency, focus, and sub-brightness adjustment, impedance input switch, (1) BNC female & (1) RCA jack for audio/video input/output at rear panel • Includes instruction manual
- Size: 9.4"W x 9.5"D x 8.9"H • Weight: 14.3 lbs.

Part No.	Description	1	10
169623	10" black & white monitor	$109.95	$99.95

JAMECO® 14" SVGA Color Monitor



- Refurbished (mfg. may vary)
- IBM PC/XT or higher compatible
- 0.28mm dot pitch
- 14" diagonal view
- HDDB15 male connector
- Power, contrast, brightness, horizontal and vertical position, recall and trapezoid knob adjustments
- Resolution: 1280 x 1024 @ 60Hz
- Input voltage: 100-240VAC @ 50/60Hz
- Includes power cable, tilt and swivel base
- Size: 14.2"W x 14.6"D x 13.5"H • Weight: 25 lbs.

Part No.	Description	1	10
174537	14" SVGA color monitor	$89.95	$80.95

JAMECO® 15"/17" SVGA Color Monitors



- Refurbished (mfg. may vary)
- IBM PC/XT or higher compatibles
- 0.28mm dot pitch
- Resolution: 1280 x 1024 @ 60Hz
- Digital panel control
- Input voltage: 100-240VAC, 50/60Hz (auto switching)
- Power, contrast, brightness, horizontal and vertical size position, recall and trapezoid front control
- HDDB 15-pin female connector • UL/CSA/TUV approved
- Includes power cable and tilt and swivel base

153306: • 13.5" diagonal view
- Size: 14.5"W x 16.0"D x 14.6"H • Weight: 45 lbs.

181905: • 15.5" diagonal view
- Size: 16.5"W x 17.0"D x 14.5"H • Weight: 47 lbs.

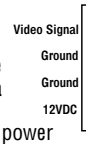
Part No.	Description	1	10
153306	15" SVGA color monitor	$119.95	$107.95
181905	17" SVGA color monitor	169.95	149.95

JAMECO® 4" Color Monitor (LCD)

NTSC Format



- High resolution and low power consumption
- TFT active matrix
- Input voltage: 12VDC @ 500mA center positive
- Power consumption: <800mA
- Video input: composite video signal IV p-p; 75Ω • Wider view angle
- Backlight: cold cathode filament tube
- Resolution: 234 x 383 dpi; RGB delta configuration • Includes manual
- 2" long stripped and tinned wires for power and video connection • Wt: 1.1 lbs.
- Size: 4.7"L x 3.4"W x 1.5"H (unit) 4.0"L x 3.3"W x 0.7"H (display)



Part No.	Description	1	10
154747	4" LCD color monitor	$299.95	$269.95

JAMECO® 4" LCD Color Monitor

NTSC Format



- High resolution, low power consumption
- TFT color LCD
- Backlight: cold cathode flourescent lamp
- Power source: 12VDC @ 400mA
- Resolution 383 x 234 dpi
- 5" long lead wire w/ 4 position molex type power connector • Tint color and brightness adjustable
- Size: 4.1"L x 3.3"W x 0.7"H (display)
- Size: 4.7"L x 3.3"W x 1.3"H (unit) • Weight: 0.7 lbs.

Part No.	Description	1	10
172742	4" color LCD monitor	$149.95	$134.95

JAMECO® Black and White CCD Camera with 6" Monitor

Monitor: EIA Format



- 6" 2-channel flat screen monochrome monitor
- Vertical hold, brightness and contrast adjustment knobs at rear of monitor

170616

- Includes 20M audio/video cable, manual & 15V @ 1A center positive pwr. supply
- Size: 6.7"W x 7.2"D x 5.2"H

Camera: EIA Format

- 512(H) x 492(V)
- 1/3" CCD image sensor
- 380 TV line resolution
- 6 IR LED light for view in the dark application
- 15.734kHz horizontal synch. frequency
- 2:1 interlace scanning system
- S/N ratio: 48dB
- 1/100,000 second electronic shutter
- 3.6mm lens with F2.0
- Includes camera bracket
- Audio output: 2Vp-p, 50Ω maximum
- 0 lux at 2M
- BNC connector for video and RCA connector for audio
- Power supply: 12-15V @ 130mA
- FOV: 92˚
- Video output: 1Vp-p, 75Ω
- Size: 2.2"W x 2.8"D x 2.1"H

Part No.	Description	Wt.(lbs)	1	10
170616	Camera w/ monitor	7.7	$159.95	$143.95
169615	6" monitor only	5.3	79.95	71.95

GME Computer Monitor Tester

Portable tester helps you troubleshoot, test, and align computer monitors quickly!



- Test MDA, CGA, EGA, VGA and Super VGA resolution monitors
- Checks color bars, color raster (white, red, green, blue), dots, crosshatch and windows
- Both digital/TTL 9-D and analog 15-HD
- Power with either a 9V battery or an external AC adapter (P/N 100845 – pg 87)
- One-year warranty
- Size: 5.6"L x 3.7"W x 1.8"H
- Weight: 0.6 lbs.

Part No.	Description	1	10
137761	Computer monitor tester	$139.95	$125.95

GME Computer Monitor and NTSC Tester (Mac, PC and TV)



- Tests VGA, Super VGA, Mac monitors and TVs
- Connectors: HD15, DA15
- Checks full field color bars, color raster, dots (static and dynamic convergence), cross-hatch and windows (power supply regulation, checks for a clear distinction between white and black portions)
- Two video connectors for TV, composite and S-video
- Power with either a 9V battery (not included) or an external DC adapter
- Size: 5.5"L x 3.0"W x 1.4"H
- Weight: 0.7 lbs.
- One-year warranty

Part No.	Description	1	5
149729	Computer monitor tester	$199.95	$179.95

JAMECO® Power Base

5 Switched AC Power Outlets



- Maximum spike current: 4,500 amps, 90 joules
- Size: 13.7"L x 12.8"W x 1.5"H
- Weight: 7.0 lbs.

Part No.	Description	1	10	50
20159	Power base	$16.95	$14.95	$13.49

JAMECO® B&W CCD Camera Board

EIA Format

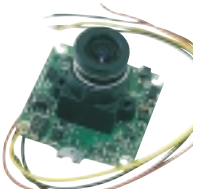


- 1/3" CCD image sensor
- 510(H) x 492(V)
- Horizontal resolution: >350 lines
- Scanning system: 2:1 interlace
- Sensitivity: 0.7 lux/F2.0
- S/N ration: 46dB
- Video output: 1Vp-p, composite video 75Ω
- Power supply: 12VDC
- Power consumption: 110mA
- FOV: 92˚
- Electronic shutter: 1/125,000 sec. (linear)
- Size: 1.3"L x 1.3"W x 1.2"H
- Weight: 0.1 lbs.

Part No.	Description	1	10
171029	Camera board	$49.95	$44.95

SONY Black & White Camera Boards

Sony Chipset



150931

- Lens: 3.6mm
- Signal to noise ratio: >48dB
- Requires 12V power source (not included)
- 7" (P/N 150949)/ 6" (P/N 150931) wires with 4-pin Molex type keyed connector to board and stripped and tinned on one end
- One-year warranty

150949:
- EIA system 510(H) x 492(V)
- 1/3" Sony CCD image sensor
- 400TV line resolution
- Auto shutter speed: 1/60 - 1/100,00
- FOV: 92˚
- Size: 1.7"L x 1.7"W x 1.1"H
- 0.1 lux/F2.0

150931:
- EIA system 537(H) x 505(V)
- Composite output with 420 line resolution
- Shutter speed: 1/60 - 1/1000
- FOV: 92.6%
- Video output: 1.0Vpp composite video/ 75Ω
- Size: 1.3"L x 1.3"W x 1.0"H

Part No.	Description	Wt. (lbs.)	1	10	25
150949	Board w/ audio	0.08	$89.95	$80.95	$72.95
150931	Camera board	0.05	79.95	71.95	64.95
174705	2.5mm lens 130˚	0.02	24.95	22.49	19.95
159062	6mm lens 56˚	0.03	24.95	22.49	19.95
159071	8mm lens 38.6˚	0.02	24.95	22.49	19.95

SONY Color PC Board CCD Camera

Sony Chipset

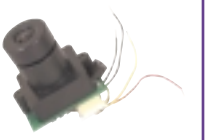


- 380 line resolution
- NTSC format (510H x 492V)
- Signal to noise ratio: >48dB
- Sensor: Sony 1/3" interline transfer CCD
- Auto electric shutter: 1 to 1/100,000 sec. linear
- Lens: 3.6mm / F2.0
- Focus range: 10mm to infinity
- Automatic gain control
- Automatic white balance
- Video output: 1Vp-p, 75Ω (mating connector BNC type: P/N 135618 – pg 61)
- (2) 9" wires w/ 2-pin Molex type keyed connector to board and stripped and tinned on one end
- (1) 3" wire harness w/ 15-pin Molex type keyed connector to board
- Requires: center positive 12VDC @ 150mA (P/N 149340 – pg 87) (mating connector: P/N 28767 – pg 85) Recommended: transformer P/N 100095 – pg 87
- Size: mother card: 2.3"L x 1.7"W; analysis card: 2.0"L x 1.7"W; sensor card: 1.7"L x 1.1"W x 1.0"H
- Lens: 3.6mm
- FOV: 92.6˚
- Weight: 0.2 lbs.

Part No.	Description	1	5
139571	Color camera board	$199.95	$179.95

JAMECO® Color CMOS Camera Board

NTSC Format



- 1/3" CCD image sensor
- 330 TV lines
- 5.0 lux
- FOV: 92˚
- 3.6mm lens/F2.0
- Low power consumption
- Automatic exposure, gain and white balance
- Size: 1.0"L x 0.9"W x 1.1"H
- Weight: 0.01 lbs.

Part No.	Description	1	10
171011	Camera board	$59.95	$53.95

JAMECO® Mini Enclosed Color NTSC Camera Board with Lens



- 1/4" CCD image sensor
- NTSC system with 512H x 492V
- 330 horizontal TV lines
- 2 Lux / F2.0
- FOV: 106˚
- Electronic shutter: NTSC – 1/60 ~ 1/96,000 sec
- Lens: 3.6mm / F2.0
- Signal to noise ratio: 46dB
- Recommended P/N 100853 (9VDC @ 500 mA – pg 87)
- Scanning system: 2:1 interlace
- Video output: 1V p-p composite video / 75Ω
- Includes mounting hardware and cable
- Size (enclosure): 1.2"L x 1.2"W x 0.7"D
- Weight: 0.9 lbs
- One-year warranty

Part No.	Description	1	10
168575	Miniature enclosed camera	$149.95	$134.95

SONY Enclosed Color Camera

Sony Chipset



- 1/3" Sony interline transfer CCD image sensor
- NTSC system with 510 (H) x 492 (V)
- 380 horizontal TV lines
- 1 LUX/F2.0
- FOV: 92.6˚
- Signal to noise ratio: >48dB
- Auto electronic shutter speed: 1 to 100,000 sec.
- Video output: 1V p-p composite video / 75Ω
- Requires 12V @ 110mA center positive power supply (not included, P/N 100095 – pg 87)
- Size: 1.9"L x 1.9"W x 1.0"H
- Lens: 3.6mm
- Weight: 0.4 lbs.
- One-year warranty

Part No.	Description	1	5
153867	Enclosed color camera	$199.95	$179.95

JAMECO® Mounting Brackets for Enclosed Camera



171002

170982



174713

- Material plastic
- Base mounted w/ 3 screws
- Swivel angle: 360˚
- Tilt angle: 90˚
- Compatible with all Jameco enclosed cameras

171002:
- Color: ivory
- Max load: 11 lbs.

170982:
- Color: white
- Max load: 6.6 lbs.

174713:
- Color: black

Part No.	Product No.	Ht. (in.)	Wt. (lbs.)	1	10
171002	15-B002L	6.4	0.3	$4.95	$4.49
170982	15-B004	2.0	0.2	6.95	6.25
174713	15-B008	5.4	0.1	9.95	8.95

JAMECO® Black and White Lighted Infrared Camera

EIA Format



169607

- Adjustable camera lens
- 6 infrared LEDs for night vision
- Scanning system: 2:1 interlace
- Horizontal sync. freq.: 15.734kHz
- 380 TV line resolution • FOV: 92˚
- Video output: 1V p-p; 75Ω
- 0.1 lux with F2.0 • Lens: 3.6mm
- Includes 12VDC @ 500mA center positive power supply and wall mounting bracket


150404

P/N 169607: • Compatible with P/N 161752 (pg 152) • 2.4GHz
- 4-channels jumper configurable
- Audio output: 2V p-p max.
- Size: 2.8"L x 2.1"W x 2.1"H • Wt: 1.3 lbs.

P/N 150404: • Auto iris controlled
- Built-in voltage regulator
- Matching connectors: RG59 BNC (P/N 71271, pg 61)
- Operating voltage: 12-15VDC • One-year warranty
- Size: 2.9"L x 2.0"W x 2.0"H • Weight: 1.2 lbs.

Part No.	Description	1	10
169607	2.4GHz infrared camera	$179.95	$159.95
150404	Infrared lighted camera	129.95	116.95

JAMECO® Enclosed CCD Color Camera with Audio Microphone

NTSC Format



- Pick-up device: 1/4" CCD image sensor • FOV: 92˚
- Picture elements: 512(H) x 492(V) lines
- Horizontal resolution: 330 lines
- Minimum illumination: 2 lux
- Horizontal sync. frequency: 15.734kHz
- Vertical frequency: 60Hz • Lens: 3.8mm / F2.0
- Scanning system: 2:1 interlace
- Video output: 1V p-p, 75Ω • Audio output: 2V p-p max.
- Requires 12V regulated power supply
- Size: 2.9"L x 2.1"W x 2.0"H • Weight: 0.3 lbs.

Part No.	Description	1	10
169404	Enclosed camera w/ audio	$149.95	$134.95

JAMECO® 4-Channel 2.4GHz Wireless Color Camera

NTSC Format



- Output impedance: 50Ω typical
- Video input: 1Vp-p composite video; BNC connector
- Audio input: 2Vp-p maximum
- 4 channel jumper selectable at the back of unit
- Output pwr: 10mW
- 1/4" DSP color CCD sensor
- 2 lux illumination
- Function chip on board
- Built-in 3.8mm board lens
- 330 TV lines • FOV: 92˚
- Includes mounting bracket, manual and 12VDC @ 500mA center positive AC adapter
- Size: 2.9"L x 2.2"W x 2.0"H • Weight: 1.6 lbs.

Part No.	Description	1	5
170991	2.4GHz color camera	$274.95	$249.95

JAMECO® 4-Ch 2.4GHz Wireless Audio/Video Transmitter System

EIA Format



- ISM band: 2.4–2.483GHz
- Four selectable channel transmitter and receiver
- Audio response: 20Hz–20kHz
- Antenna mode: dipole (omnidirectional)
- Video output: 1V p-p/75Ω composite video
- RCA jacks for audio/video connectors
- Includes (2) 12VDC @ 500mA w/ 2.1mm x 5.5mm center positive plug, and patch cables • Wt. 3.3 lbs.

Transmitter: • Size: 3.5"L x 2.5"W x 1.1"H
- Input voltage: 12VDC @ 500mA
- Output voltage: 12VDC @ 300mA

Receiver: • Size: 5.1"L x 4.0"W x 1.0"H
- Input voltage: 12VDC @ 500mA

Part No.	Description	1	10
169631	4-ch. wireless system	$149.95	$134.95

JAMECO® Mini Dome Color Camera

NTSC Format



- 1/4" CCD image sensor
- 512(H) x 492(V)
- 330 horizontal line res.
- 15.73KHz horizontal synch. frequency
- S/N ratio: 46dB
- Scanning system: 2:1 interlace
- Up to 1/96,000 second electronic shutter
- 3.6mm lens with F2.0 • Video output: 1Vp-p, 75Ω
- Power supply: 12VDC @ 160mA • 2 lux/F2.0
- Includes mounting hardware • FOV: 92˚
- Size: 3.5"Dia. x 2.3"H • Weight: 0.5 lbs.

Part No.	Description	1	10
171037	Mini-dome camera	$149.95	$134.95

JAMECO® 4 Channel Matrix Switcher

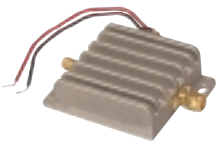


- NTSC signal format
- Inputs: 4
- Video input/output: 1Vp-p, 75Ω
- Output: 2 selectable on screen
- Video gain: from attenuation to amplifier (0.8 to 1.4 Vp-p) • Video bandwidth: 2MHz (±3dB)
- Switching interval: 1 to 30 seconds selectable on screen • By-pass, scan, home selectable on screen
- BNC connector to video and RCA connector for audio
- Includes manual, remote control and 9VDC @ 200mA center positive power supply
- Size: 9.3"L x 4.7"W x 1.6"H • Weight: 2.4 lbs.

Part No.	Description	1	10
169228	4 channel switcher	$89.95	$79.95

2.4GHz Wireless Antenna Booster

Extend Video Transmitting Distance



- Output power: 1 watt
- Audio / Video booster
- FM design
- Easy to install
- Impedance output: 50Ω typical (to antenna)
- Video output: 1Vp-p composite video; 75Ω (to camera)
- Requires 9VDC @ 400mA power supply
- Used when increase in distance is needed
- Includes mounting hardware
- Size: 2.0"L x 1.9"W x 0.7"H • Weight: 0.3 lbs.

Part No.	Description	1	10
174748	Antenna booster	$199.95	$179.95

JAMECO® Color and B&W CCD Cameras with 8mm Lens


171248

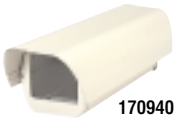
- 1/3" Panasonic CCD image sensor
- Image size: 4.82mm (H) x 3.64mm (V)
- More than 380TV lines horizontal resolution
- 15.734kHz synchronous frequency
- Scanning system: 2:1 interlace
- S/N ratio: more than 46dB • BNC connector for video
- Video output: 1Vp-p; 75Ω • FOV: 42.6˚
- Requires 12VDC @ 140mA power supply (recommend P/N 162996, pg 88)
- Size: 4.0"L x 2.2"W x 2.0"H • Weight: 0.9 lbs.

171256: B&W • 0.3 lux
- 512(H) x 492(V) EIA signal format
- Auto iris: DC driver / AES / video driver switchable

171248: Color • 1.0 lux / F1.4
- 512(H) x 492(V) NTSC signal format
- Auto iris: DC driver / video driver switchable

Part No.	Description	1	10
171256	B&W CCD camera	$109.95	$99.95
171248	Color CCD camera	219.95	199.95

Metal Housing Camera Enclosures


170940

- Plate glass: 3mm thick

170931: without heater
- Clear window area: 2.5"W x 2.3"H • Indoor use
- Max. camera size: 4.0"L x 2.4"W x 2.4"H
- Size: 16.0"L x 4.9"W x 4.9"H • Weight: 2.8 lbs.

170940: with heater
- Clear window area: 3.5"W x 3.1"H • Outdoor use
- Max. camera size: 6.5"L x 3.2"W x 3.2"H
- Size: 11.0"L x 3.6"W x 3.6"H • Weight: 6.8 lbs.

Part No.	Description	1	10
170931	Camera housing	$29.95	$26.95
170940	Camera housing w/ heater	69.95	62.95

Quad Digital Color Video Processor



- NTSC signal format
- 4 with loop inputs
- Video input: 1Vp-p, 75Ω typical
- Video output quad: 2x1Vp-p, 75Ω
- Digital memory: 1024x512
- Zoom relay with 2x2 zoom definition
- Alarm inputs/outputs: 4/1 contact normally open (n.o.)/normally closed (n.c.)
- Switching interval: 0-99 seconds
- Day/time generator format: month/day/hour/min./sec.
- 8 character title display • BNC video connections
- Includes manual & 24VAC @ 750mA power supply
- Size: 16.9"L x 9.5"W x 1.7"H • Weight: 8.1 lbs.

Part No.	Description	1	5
170974	Color video processor	$399.95	$369.95

JAMECO® PCI Digital Audio/Video Recorder with Color Camera

4 Quadrants



- Digital motion image compression & storage
- FOV: 90˚
- Intelligent image motion detection
- Full playback functions
- Multiple hard disk capability
- Adjustable image sizes, recording frame rates, and image quality
- Weight: 4.4 lbs.
- Size: (camera) 2.9"L x 2.1"W x 2.0"H

Part No.	Product No.	1	10
169341	15DR001K	$399.95	$359.95

JAMECO 2.4GHz Wireless B&W / Color CCD Camera


174764

- 1/3" CCD image sensor
- 380 TV lines
- 512(H) x 492(V)
- Auto electronic shutter
- Audio and video transmission
- S/N ratio: more than 48dB
- Impedance output: 75Ωtypical
- Video input: 1Vp-p composite video (75Ω)
- Audio input: 2Vp-p maximum
- Built-in 15VDC regulator and microphone
- 4-channel jumper configurable
- Includes 15VDC power supply, antenna, mounting bracket, and manual



174801

174764: B&W Camera
- EIA format; 0.1 lux / F1.2; 3.6mm lens with FOV: 92˚
- Size: 3.6"L x 2.2"W x 2.1"H • Weight: 2.0 lbs.

174801: Color Camera
- NTSC format; 2.0 lux / F1.2; LED power "ON" indicator; automatic gain control and white balance
- Lens not included (recommend P/N 174799)
- Size: 4.1"L x 2.2"W x 2.1"H • Weight: 2.1 lbs.

174799: Lens
- 8mm lens with FOV: 42.6˚; F1.8 (for P/N174801)
- Weight: 0.1 lbs.

Part No.	Description	1	10
174764	B&W camera	$179.95	$161.95
174801	Color camera	299.95	269.95

42.6˚ Lens for P/N 174801

Part No.	Description	1	10	25
174799	8mm lens	$74.95	$71.95	$64.95

JAMECO 2.4GHz Wireless B&W / Color CCD Camera

With AES/AI Video Drive



174828



174810

- 1/3" CCD interline sensor
- 380 Horizontal TV lines
- 512(H) x 492(V)
- Scanning system: 2:1 interlace
- Auto electronic shutter (AES) : 1 to 1/100,000 sec
- Auto iris (AI) control video drive switchable
- S/N ratio: more than 48dB
- Video output: 1Vp-p / 75Ω
- Impedance output: 75Ω typical
- LED power "ON" indicator at rear panel
- Includes 15VDC power supply, antenna, mounting bracket, and manual
- Weight: 2.1 lbs.
- Size: 4.0"L x 2.2"W x 2.0"H
- Lens not included (recommend P/N 174799, above)

174828: B&W; EIA format; 0.1 lux / F1.2

174810: Color; NTSC format; 2.0 lux / F1.2

Part No.	Description	1	10
174828	B&W camera	$199.95	$179.95
174810	Color camera	349.95	314.95

JAMECO B&W CCD Interline Camera

With Adjustable Mounting Bracket



EIA Format
- 380 TV line resolution
- EIA format (512H x 492V)
- Signal to noise ratio: more than 48dB
- Sensor: Ω" interline CCD
- Video output: 1Vp-p; 75Ω
- Electronic shutter: 1/60 ~ 1/100,000 sec. (AGC Off)
- 5.5mm pin hole lens / F2.0 • Viewing angle: 60˚
- Internal synchronization system
- 1 standard RCA female jack for video; in-line 2.1mm power plug connector for power supply
- Requires 12VDC @ 100mA center positive power supply (recommend P/N 162996, pg 88)
- Includes instruction sheet and mountable bracket
- Size: 1.7"L x 0.7"Diameter • Weight: 0.3 lbs.

Part No.	Description	1	10	25
174781	B&W camera	$99.95	$89.95	$79.95

JAMECO 4-Channel 2.4 GHz Wireless Audio/ Video Receiver and 10mW Transmitter

FCC Compliant

Make your camera wireless up to 495 feet!


161744


161752

- Output power: 10mW
- Output impedance: 75Ω typical
- Video input: 1Vp-p composite video, BNC connector
- Audio input: 2Vp-p maximum
- Transmission range: 495' (150 meters) outdoors 198' (60 meters) indoors
- 4 channel selected by rotary switch on transmitting unit
- Built-in sound and mute function, screen timecontroller, channel auto scanning and channel locked function on receiver
- Receiver compatible with adapter (P/N 114788, pg 61)
- Includes user's manual, antenna, mounting hardware for transmitter, 15V @ 350mA power supply and cables • One year warranty

161744: • Size: 4.0"L x 3.0"W x 1.5"H • Wt: 1.3 lbs.

161752: • Size: 7.5"L x 5.0"W x 1.3"H • Wt: 2.5 lbs.

Part No.	Description	1	10
161744	4-channel 2.4GHz transmitter	$99.95	$89.95
161752	4-channel 2.4GHz receiver	119.95	109.95

JAMECO Mounting Brackets

For Enclosed Camera



- Material: plastic base with metal neck
- Swivel angle: 360˚
- Tilt angle: 90˚
- Compatible with all Jameco enclosed cameras
- Height: 5.5"
- Weight: 0.2 lbs.

Part No.	Product No.	1	10	25
174730	15B001	$9.95	$8.95	$7.95

JAMECO USB PenCam Digital Camera

Still and Streaming Video Capable



- USB Interface
- Compatible with Windows® 98/2000 and ME
- High resolution 352 x 288 (20 still shots)
- Low resolution 176 x 144 (80 still shots)
- Up to 12 seconds of AVI streaming video
- Up to 2 hour battery life (full time usage)
- 10 second self timer
- Requires (2) AAA batteries (not included)
- Includes CD-ROM software bundle, 5' USB cable, camera stand, and camera clip
- CD-ROM software bundle includes Pocket Cam Manager, Photo Express 3.0, Photo Explorer 3.0, COOL 360 1.0, Video Live Mail Plus 3.11b, and Microsoft Net Meeting 5.0 • Weight: 0.4 lbs.
- One-year warranty • Size: 4.8"L x 1.3"W x 0.8"D

Part No.	Description	1	10
177199	Digital PenCam	$89.95	$79.95

JAMECO 2.4GHz High Gain Directional Antenna



- Indoor and outdoor use
- Gain: 8.5dB
- Impedance: 50Ω
- Weatherproof and corrosion resistant
- Distance: 150 – 300ft. (open area)
- Frequency range: 2300 – 2500MHz
- Cable: RG58/U with SMA male connector
- Connector: SMA male • Cable length: 0.8 ft.
- Includes mounting hardware
- Size: 4.8"W x 4.8"H x 2.8"Depth • Weight: 0.7 lbs.

Part No.	Description	1	10	25
174721	2.4GHz antenna	$99.95	$89.95	$79.95

JAMECO 2.4GHz SMA RF Antenna

Unidirectional



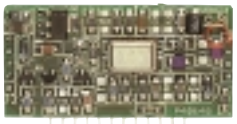
- For use with 2.4GHZ cameras, transmitters, and receivers
- Compatible with P/N 174756 (above)
- Unidirectional • Gain: 3dB
- SMA male • Size: 3.6"L

Part No.	Description	1	10
179864	2.4GHz antenna	$12.95	$11.49

" I think Jameco does a great job providing an inexpensive source of electronic parts. We have been ordering from your catalog for over 15 years and have always been pleased with the results. Keep up the good work!"

John Coha
— University of California, Santa Cruz

OTEK Wireless Transceiver (RF) with RS-232 And PC Software



Overall specifications:
- Voltage input: 5VDC
- Transmit current: 20mA
- Receive current: 10mA
- Max# of nodes: 15
- Sleep current: 2mA

RF section:
- Operating frequency: 916.5MHz
- Data rate: (RF) On-Off Keyed: 19.2KB
- Max. peak transmit power: 1mW
- Receivers gain: 100dB
- Auto transmission: 32 char.
- Telemetry: every 30 char.
- Indoor / outdoor range: 100ft / 300ft

RS Section:
- TS232C/485/TTL: 19.2Kbps
- TTL/CMOS: 1 load • Characters: any
- Handshake: none required • Settings: 8N1

Part No.	Product No.	1	10
176508	TR200A	$124.95	$112.95

OTEK Wireless Transceiver (RF) with RS232 Port and PC Software

Plug and Play



Overall specifications:
- Voltage input: 120VAC with included power supply
- Transmit current @ 5VDC: 20mA
- Receive current @ 5VDC: 10mA

RF Section:
- Operating frequency: 916.5MHz (± 0.2MHz)
- Data rate (RF): On-Off Keyed: 19.2KB
- Max. peak transmit power: 1mW
- Receivers gain: 100dB
- Auto transmission: 79 characters
- Telemetry: every 30 characters
- Indoor / outdoor range: 100ft / 300ft

RS Section:
- RS-232C: 19.2Kbps • Characters: any
- Handshake: none required • Settings: 19200, 8N1

Part No.	Product No.	1	10
176516	TR300A	$194.95	$175.95

OTEK Wireless (RF) Transceiver with TTL I/O Module



Economical and effective in transceiving streams of data at high rates over a short distance with minimum power consumption lending itself to battery operated products.

- Operating frequency: 915.6MHz (± 200KHz)
- Modulation: On-Off Keyed
- Data rate: On-Off Keyed: 19.2KB
- Sleep current: 25uA • Receive current: 6mA
- Transmit current: 12mA • Voltage input: 5VDC
- Peak transmit power: 0.85mW
- Indoor / outdoor range: 100ft / 300ft

Part No.	Product No.	1	10
176495	TR101	$74.95	$67.49

OTEK Wireless (RF) Fail Safe Alarm-Controller



General specifications:
- RF operating frequency: 433.92MHz
- Modulation: On-Off Keyed
- Programmable codes: 255 (internal dip switch)

176524

Transmitter Specifications: (FS001400)
- Power input: 120VAC (+/- 20%) 50-60Hz
- 9V battery back up

Receiver Specifications: (FS002400)
- Same specifications as transmitter
- Relay: SPST N.O. 50mA/120VAC resistive

Part No.	Product No.	1	10
176524	FS001400	$124.95	$112.49
177201	FS002400	124.95	112.95

Pan/Tilt Controller Box

With Zoom Lens Control



- Input voltage: 115VAC
- Single joy pad and auto pan control for manual and auto pan operations
- Iris, focus, and zoom paddle switches for manual and auto pan operations
- For use with P/N 179899 pan/tilt mechanism (below)
- Lens connectors: screw down terminals
- Pan/tilt connectors: 8P mike connector
- Power consumption: 8.5 watts
- Size: 8.6"W x 7.9"D x 1.6"H • Weight: 4.0 lbs.

Part No.	Description	1	10
179881	Pan/tilt controller box	$119.95	$107.95

Indoor Pan / Tilt Mechanism

Continuous Pan



- Input voltage: 115VAC
- Auto mode for continuous pan
- Angular travel pan: 355˚
- Angular travel tilt: +/- 60˚ (up/down)
- Externally adjustable limited switch
- Pan speed: 6˚/second
- Tilt speed: 3˚/second
- Maximum load: 11 lbs. • Weight: 4.6 lbs.
- Use P/N 179881 for controller box (above)
- Size: (overall dimensions) 7.5"H x 6.2"W x 5.4"D

Part No.	Description	1	10
179899	Pan/tilt mechanism	$249.95	$224.95

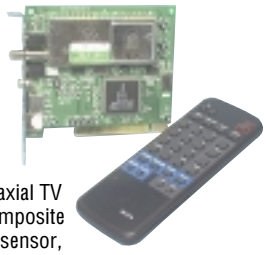
JAMECO Wireless Component Extension Cable



- RG330
- For wireless camera and receiver
- Connects your booster to antenna
- SMA male to SMA female connectors
- Length: 8" • Weight: 0.3 lbs.
- See page 152 for cameras and receivers

Part No.	Description	1	10
179872	Wireless extension cable	$12.95	$11.49

PCI TV Capture Card with Remote Control



- System requirements: IBM compatible Pentium® 90MHz or higher, 8MB of RAM, Windows® 95, SVGA graphics card
- Can be used for video conferencing
- Input signal: 75Ω coaxial TV antenna, S-Video, composite (RCA) video, remote sensor, philips camera input (CVBS)
- Output signal: audio output (loop to sound card)
- 181 channel cable ready TV tuner function
- Resizable TV window from icon size to full screen
- Supports NTSC / PAL video input
- Includes user's manual, cables, remote control (battery included), and CD-ROM drivers
- Size: 4.9"L x 3.9"H • Wt.: 1.2 lbs. • One-year warranty

Part No.	Description	1	10	25
152881	PCI TV capture card	$89.95	$80.95	$72.95

JAMECO PCI Video Capture Card



- System requirements: Pentium® 100MHz or higher; available PCI slot; Windows® 95/98; VGA card with DirectDraw support
- Supports RGB 32, 24, 15 formats
- AVI compatible
- Supports video conferencing applications
- One-year warranty • Plug and Play
- Includes instruction manual, and drivers on CD-ROM
- Size: 4.8"L x 22"W • Weight: 0.3 lbs.

Part No.	Description	1	10	25
172793	PCI video capture card	$49.95	$44.95	$39.95

JAMECO Video Capture Card with Camera



- Minimum system requirements: Windows® 95 or better; Pentium 133MHz or better; 16MB of RAM; 46MB hard disk space, 4X CD-ROM; PCI video board with 2MB of memory; 640 x 480 display with 8-bit color depth; available PCI slot
- For better results recommend Pentium MMX® 233MHz; 32MB RAM; 800 x 600 display with 16-bit color depth; sound card; microphone; speakers (for audio and video capturing) ISP; 56K V.9 modem
- Plug and play PCI specification version 2.1 compliant
- CIF (common interlace format) for image capturing
- True motion codec (compression and decompression)
- NTSC/PAL/SECAM composite video capture at a full 640 x 480 resolution with 24-bit color depth
- Capture and compress video at rates of 30fps (frames per second) • Provides real time images
- Video conferencing; video messaging; editing, video conferencing; and manipulation software suite
- Includes manual on CD-ROM, CD-ROM drivers, and camera
- Size: 4.8"L x 2.2"W • Weight: 0.8 lbs.

Part No.	Description	1	10	25
180110	Video capture card	$89.95	$79.95	$71.95

AVer Pro PC to TV Converter Box



- Converts VGA video to standard NTSC and Macintosh® 640 x 480 to standard NTSC
- Built-in flicker filter
- Resolution: 800 x 600
- Color: gray
- System requirements: VGA-based PC, DOS 3.0 or higher, 640KB RAM or larger • TV brightness control
- Compatible with Microsoft® Windows® 3.0 and higher
- Package includes: compact PC to video converter box, transformer, utilities diskette, cables, and instruction manual • Weight: 2.2 lbs.
- Size: 6.0"L x 4.0"W x 1.0"H • Two-year warranty

Part No.	Description	1	10
167193	Video signal pro	$99.95	$89.95

Audio/Video Adapters (CAT 5 UTP)



155002

- Designed to convert impedance of video/audio signals to 100Ω for transmission over CAT 5 UTP cable
- Supports both NTSC or PAL video signals
- Built-in impedance matching device and filter for video and audio signal transmission
- Use with existing premises wiring and wall jacks for easy and cost effective installation
- Range: 1000' color video, 2000' for B/W video

155070: • Signal pair: video (BNC), CAT pair 1 (RJ45)
155002: • Signal pairs: video (BNC), CAT pair 4 (RJ45); audio 1 (RCA), CAT pair 3 (RJ45); audio 2 (RCA), CAT pair 2 (RJ45)

- Includes 1 RCA to BNC adapter, 2 mounting screws

Part No.	Conn. Type	Wt. (lbs.)	1	10
155070	BNC/RJ45	0.1	$27.95	$24.95
155002	BNC/RCA/RJ45	0.3	39.95	35.95

SMK 12VDC RF Modulator



MFG. #: WMN2144-01

- Output frequency: NTSC Ch. 3/4, switch selectable
- 12VDC RF Modulator
- Operating voltage: 12V@ 50mA max.
- RF output impedance: 75Ω (F-type connector)
- Video modulation: 1.0V p-p
- Audio FM deviation: 1.4V p-p
- PC connections: solder tab connectors
- Size: 1.7"L x 1.7"W x 0.7"H • Weight: 0.1 lbs.

Part No.	Description	1	10	50	100
141639	RF modulator	$4.95	$4.49	$3.95	$3.25

JAMECO Multimedia Speaker System

With 3D True Sound



- Input voltage: 120VAC @ 60Hz
- Output power: 240 watts
- Self-amplified
- Magnetically shielded speakers
- 2-channel stereo amplifier
- Power and volume control, tone control, 3D power on-off button
- Size: 7.2"H x 3.5"W x 4.7"D • Weight: 3.7 lbs.

Part No.	Description	Price
180380	240 watt speaker system	$49.95

JAMECO Multimedia Speaker System

With 3D Sound



- Input voltage: 120VAC@60Hz
- 200 watts
- 2-channel speaker system
- Magnetically shielded
- Power LED
- 3D button switch, volume / tone knob adjustment
- Size: 10.0"H x 3.1"W x 5.6"D • Weight: 5.5 lbs.

Part No.	Description	Price
180355	200W speaker system w/ 3D sound	$49.95

JAMECO 120 Watt Multimedia Amplified Speaker System



- Input voltage: 120VAC@60Hz
- 120 watts
- 2-way speaker system: 4" woofer and 2" tweeter
- Magnetically shielded
- 4Ω impedance
- Power LED, volume / bass/ treble adjustment knobs
- Includes cable
- Size: 10.5"H x 6.0"W x 6.2"D • Weight: 8.6 lbs.

Part No.	Description	1	10
180363	120W speaker system	$49.95	$44.95

JAMECO 120 Watt Multimedia Speaker System

With True Sound



- Input voltage: 120VAC@60Hz
- 2-channel stereo amplifier
- Output power: 120 watts
- Magnetically shielded speakers
- Full range response
- Produces high quality stereo sound for your PC
- Power button, volume control, LED power indicator, and earphone plug
- Size: 8.6"H x 2.2"W x 3.9"D • Weight: 2.9 lbs.

Part No.	Description	Price
180371	120W speaker system	$39.95

JAMECO 160 Watt, 2 Channel Stereo Self-Amplified Speakers (Pair)



- Input voltage: 120VAC
- Self-amplified
- Magnetically shielded
- 2-channel stereo amplifier
- Knob controls for volume, bass, and treble
- Push button type power switch with LED indicator
- Size: 5.5"W x 7.0"D x 8.5"H • Weight: 7.3 lbs.

Part No.	Description	1	10	25
180304	160W speakers	$49.95	$44.95	$39.95

14.5 Watt, 2 Channel Stereo Amplified Speakers (Pair)



- 14.5W (RMS) self amplified per set (2)
- Headset jack
- Volume controls
- Includes 9VDC Class 2 transformer
- Weight: 2.7 lbs.
- Size: 2.9"W x 4.7"D x 7.2"H

Part No.	Description	1	10	25
140020	14.5W speakers	$12.95	$11.49	$9.95

SOUND MiNDS Technology Inc. 4 Watt Amplified Stereo Speakers

Fits 5.25" Bay



- 8Ω speakers with frequency response of 250Hz to 20kHz @ 83dB
- Compatible with all sound boards, CD-ROMs, CD digital audio players and MPC systems
- Size: 5.8"W x 7.5"D x 1.7"H • Weight: 1.4 lbs.

Part No.	Description	1	10
153541	Self amplified speakers	$69.95	$59.95

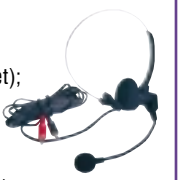
COBY® Omni-Directional Microphone Headset



- Frequency range: 20Hz to 20KHz (headset); 50Hz to 16KHz (microphone)
- Impedance: 32Ω (headset); low (microphone)
- Maximum power: 100mW
- Sensitivity: 98dB (headset); -62dB (microphone)
- Swivel microphone arm pivot
- Flexible microphone arm • 6' cord
- 1/8" phone jacks (2) • Weight: 0.3 lbs.

Part No.	Description	1	10	25
153875	Microphone headset	$12.95	$11.49	$9.95

Omni-Directional Microphone Headset



- Freq. range: 200 to 6KHz (headset); 20 to 6KHz (microphone)
- Swivel microphone arm pivot
- Flexible microphone arm
- Connector: 3.5mm stereo plug (2)
- 8' cord • Weight: 0.3 lbs. • One-year warranty

Part No.	Description	1	10
132302	Microphone headset	$11.95	$9.95

Mono Microphone Condenser

Unidirectional



- Type: electret condenser
- Cord length: 20'
- Connector: 2.5mm male right angle molded plug
- Sensitivity: -67dB (± 3dB)
- Impedance: 600Ω (± 30%)
- Frequency: 150–8kHz • Voltage type: 1.5VDC
- Current consumption: 550µA (max.)
- Jacket color: black

Part No.	Description	1	10	50
169017	Microphone condenser	$1.75	$1.49	$1.25

Desktop Microphone



- Connector: 3.5 mm male stereo plug
- Neck length: 17.5"
- Cord length: 5.5'
- Weight: 0.1 lbs.
- One-year warranty

Part No.	Description	1	10	25
129963	Desktop microphone	$4.95	$4.49	$3.95

Hands-Free Condenser Microphone



- Connector: 3.5mm male stereo plug
- Cord length: 8'
- Size: 1.9"L x 1.2"W x 0.3"H
- Wt.: 0.1 lbs. • One-year warranty

Part No.	Description	1	10	25
135247	Microphone	$3.95	$3.49	$2.95

SCSI / IDE Hard Drives and Mounting Kits

PC/XT/AT and Compatibles

Check out our external mass storage cabinets on page 163!

- TPI (Track Density): 1150
- Requires host IDE adapter
- Drives over 528MB require EIDE controller
- Manufacturers may vary, we carry Seagate, Western Digital and IBM. Call for availability.


124978


180857


117217

Part No.	Capacity	Description	Weight (lbs.)	Speed	Warranty	Price
137306	528MB	2.5" IDE for portable	0.5	14 ms	3 mos.	$99.95
113751	210MB	3.5" IDE	1.6	14 ms	3 mos.	69.95
115764	425MB	3.5" IDE	1.7	12.5 ms	3 mos.	79.95
118949	850MB	3.5" IDE	1.7	14 ms	1 year	84.95
124978	1.27GB	3.5" IDE	1.1	14 ms	1 year	89.95
146325	1.7GB	3.5" IDE (Fast ATA-2)	1.1	12 ms	1 year	99.95
146333	2.5GB	3.5" EIDE (Fast ATA-2)	1.0	11 ms	1 year	109.95
151036	3.2GB	3.5" EIDE (Ultra DMA33)	1.1	11 ms	1 year	114.95
151044	4.3GB	3.5" EIDE (Ultra DMA33)	1.1	11.5 ms	1 year	119.95
151052	6.4GB	3.5" EIDE (Ultra DMA33)	1.1	9.5 ms	1 year	129.95
162261	8.45GB	3.5" EIDE (Ultra DMA33)	1.2	9.5 ms	1 year	139.95
181008	1.2GB	3.5" SCSI-I	1.3	9.5 ms	3 mos.	79.95

Part No.	Product No.	Description	Weight (lbs.)	1	10	25
180857	HDB35	3.5" hard drive mounting kit (short)	0.2	$4.95	$4.49	$3.95
117217	HDMK	3.5" hard drive mounting kit	0.6	7.95	7.25	6.49

JAMECO Removable HD Rack and Insert

- Removable storage for 3.5" IDE
- Power LEDs
- Air-vents
- Keylock for security
- One-year warranty
- Weight: 1.2 lbs.


129816

129816: Size: 5.8"W x 8.5"D x 1.5"H

• SCSI racks and inserts available

Insert Enclosure for Removable Rack:

135861: • Size: 4.1"W x 7.5"D x 1.6"H • Wt.: 0.8 lbs.

- Includes inner cable with IDE connector

Part No.	Description	1	10	25
129816	Rack, IDE drives	$27.95	$24.95	$22.49
135861	Inserts (IDE) for 129816.	19.95	17.95	13.95

ULTRA-X Quicktech '98 Diagnostic Software

Self-booting software for 386, 486 and Pentium®/II/ MMX/III/AMD Athlon



- Verify proper operation and troubleshoot failures of all major PC components: hard drives (MFM, RLL, IDE, SCSI); floppy drives; base, extended and external cache RAM; VGA/EGA/VESA – compliant video cards; keyboard; monitor; printer; and I/O ports
- 48 hour burn-in mode for lengthy testing
- Floppy drive head cleaning function • Wt.: 0.5 lbs.
- Includes loopback testers for DE9 and DB25 serial and DB25 parallel ports, manual and 3.5" disk

Part No.	Description	1	10
134826	QuickTech '98 software	$129.95	$116.95

JAMECO Hard Drive Cooling Fan

- Type: sleeve axial fan
- 3.5" drive bay mountable (includes mounting screws) • Power: 1.8 watts
- Airflow: 32 CFM, exhausts hot air from case through front panel vent
- Noise ratio: 26 dBa
- Operating voltage: 12VDC @ 200mA
- 9.5" wires with 4-pin molex type power connector
- Size: 4.9"L x 4.0"W x 1.0"H • Weight: 0.3 lbs.



Part No.	Description	1	10	25
152258	HD-300 cooling fan	$11.95	$10.95	$9.95

AMS IDE Removable 5.25" Rack Kit for 3.5" Hard Drive with Fan

- Removable storage for 3.5" hard drives
- LED for power and hard drive activity
- CFM rating: 5.6
- (1) 12VDC @ 50mA fan
- Retaining lock mechanism
- Includes mounting hardware
- Size: 5.9"W x 8.7"D x 1.6"H • Weight: 1.3 lbs.



Part No.	Description	1	10
170608	IDE removable rack kit	$29.95	$26.95

CONNER TapeStor 250MB

Internal Tape Back-up System

- Simple and fast way to protect data
- Backs up data from hard disk drive
- Complete back-up solution for DOS and Windows®

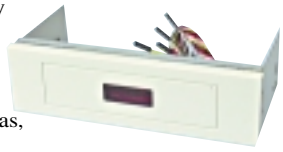


- Up to 250MB capacity and 9.5MB/minute back up rate
- Full compatibility with QIC-80 and Irwin Accutrak 250
- Includes installation manual, cable, and 3.5" disks
- Installable in a 5.25" bay • Weight: 2.5 lbs.

Part No.	Description	Price
180777	Internal tape back-up	$49.95

JAMECO 5.25" Bay IrDA Infrared Transceivers

Transfer data, without a cable or disk, between your PC and many IrDA-compliant devices such as notebook computers, Palm PCs, digital cameras, printers, cellular phones, bar code scanners, etc.



- Fast 115.2 kbps transfer rate in both directions
- Plug-N-Play under Windows® 95/98
- Supported by LapLink 7.5 for wireless remote access
- Wireless data transfer up to 6 feet
- Includes manual, cable, screws and software
- Size: 5.8"W x 1.7"H • Weight: 0.4 lbs.

Part No.	Description	1	10
158094	5.25" bay infrared trans.	$49.95	$44.95

Iomega 100MB IDE ZIP Drive

- 100MB capacity per disk
- Average seek time: 29ms
- Transfer rate: 1.4MB/sec.
- IDE interface
- Buffer size: 16K
- Fits in standard 3.5" drive bay



- OS: Dos 6.xx, WIN 3.1/95/NT
- Includes ZIP disk and ZIP drivers (CD-ROM)
- Weight: 0.9 lbs. • One-year warranty

Part No.	Description	1	10
149593	ZIP drive (disk and drivers)	$109.95	$99.95

ATEN 3.5" Portable External Parallel Port Hard Drive Enclosure

- Use on any computer with a parallel port
- Use with IDE drives
- Allows hard drive to be set up to a parallel port at the same time and is transparent to the user



- Compatible with DOS and Windows®
- Includes cable, manual and carrying case
- Enters power save mode after 20 minutes idle time
- Includes 120VAC external power adapter
- Size: 8.8"L x 5.3"W x 1.5"H • Weight: 4.5 lbs.
- One-year warranty

Part No.	Description	1	10
129699	3.5" external HD enclosure	$79.95	$71.95

MATSUSHITA 120MB 2X Floppy Drive

- 120MB capacity per disk
- Average seek time: 70ms typical
- Transfer rate: 750 – 1360 KB/sec from disk



- IDE interface
- Full read and write compatibility with standard floppy disks (1.44MB and 720KB)
- Fits standard 3.5" drive bay
- Includes: 3.5" drivers, 120MB tools disk, and manual
- Size: 6.1"L x 4.0"W x 0.9"H • Weight: 2.0 lbs.

Part No	Description	Price
174019	120MB 2X Floppy Drive	$89.95

SCSI Type / Connector Reference Table

SCSI Type	Internal Connectors	External Connectors
Wide SCSI III	High density 68-pin male/female	High density 68-pin or very high density 68-pin centronics
Fast SCSI	50-pin header	High density 50-pin male/female
Fast SCSI	Low density 50-pin male/female or 50-pin header	Low density 50-pin male/ female
Ultra SCSI II	50-pin high density male/female	High density 50-pin male/female
Fast SCSI II	50-pin header or 50-pin high density male/ female	High density 50-pin male/ female or low density 50-pin male/female
Ultra2Wide SCSI III	High density 68-pin connector male or female	High density 68-pin male/female
Ultra Wide SCSI III	High density 68-pin connector male or female	High density 68-pin male/female

JAMECO® PCI 32-Bit Sound Card

YMF724 Chip



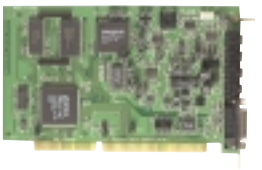
- Minimum system requirements: Pentium® 100 or higher with available PCI slot; CD-ROM drive; Windows® 95/98; 5MB free hard disk space; speakers with stereo jack
- PCI bus specification 2.1
- Yamaha YMF724 PCI sound chipset
- MPU401 UART for external devices
- Downloadable sound (DLS) level 1
- Full duplex playback and record with independent sampling rate • Supports Windows® 95/98/NT4.0
- Audio input and output / CD-audio input / joystick and midi I/O interface • Weight: 0.3 lbs.
- Size: 4.8"L x 2.8"W • One-year warranty

With Wave Table

Part No.	Description	1	10
166529	32-bit PCI sound card	$29.95	$26.95

CREATIVE ISA 16-Bit Sound Card

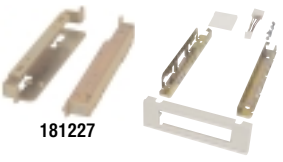
Blaster AWE 64



- System requirements: Pentium® 90MHz or better; 11MB of disk space; 8MB of RAM; Windows® 3.1X/95; MS-DOS 5.0
- Plug and play compatible
- Sound blaster music synthesizer compatible
- Advanced wave effects synthesizer with 1MB ROM of general midi samples • 512KB built in DRAM
- Full duplex stereo digitized voice channel
- High and low DMA channels using a single interrupt for audio recording and playback
- Includes manual and CD-ROM drivers
- Size: 7.2"L x 4.1"W • Weight: 0.6 lbs.

Part No.	Description	1	10
163715	16-bit sound card	$44.95	$39.95

JAMECO® 3.5" Drive Mounting Kits



181227 32088

- For mounting a 3.5" floppy drive into a 5.25" slot
- Includes beige faceplate (AT gray)
- Compatible with Teac drive (P/N 115490 – above) • Weight: 0.5 lbs.

Part No.	Description	1	10	50
32088	Drive mounting kit	$6.95	$5.95	$4.95
181227	Mounting brkt (2 pcs)	2.95	2.49	1.95

JAMECO® Disk Drive Mounting Rails



- AT and compatibles
- Includes all necessary mounting hardware
- 8 mounting holes • Weight: 0.04 lbs.

Part No.	Description	1	10	100
34323	Mounting rails (2)	$1.09	$.99	$.89

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Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

SONY 1.44MB 3.5" Internal Floppy Disk Drive

Without Bezel



- IBM PC/XT and higher compatible
- 1.44MB, 3.5" double sided, high density
- Size: 4.0"W x 5.9"D x 1.0"H
- Weight: 0.8 lbs.

Part No.	Product No.	Manufacturer	1	10
176284	MPF520-7	Sony	$24.95	$22.49

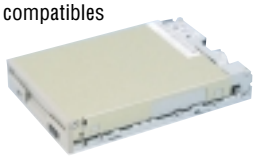
SONY 1.44MB 3.5" Internal Floppy Disk Drive



- IBM PC/XT and higher compatibles
- Color (faceplate): beige
- 1.44MB, 3.5", double-sided, high density
- Size: 4.0"W x 5.9"D x 1.0"H
- Weight: 1.4 lbs.

Part No.	Product No.	Manufacturer	1	10
118922	JU257	Sony	$29.95	$26.95

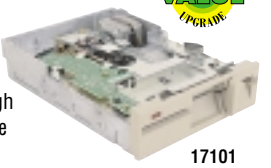
TEAC 1.44MB 3.5" Internal Floppy Disk Drive



- IBM PC/XT and higher compatibles
- Compatible with DOS versions 3.3 or higher
- Automatically determines if disk is high or low density
- Formatted high density mode
- Size: 4.0"W x 5.9"D x 1.0"H (actual drive size)
- Weight: 1.3 lbs. • One-year warranty

Part No.	Product No.	Manufacturer	1	10
115490	FD235	Teac (1.44MB)	$34.95	$31.49

IBM 360KB & TEAC 1.2MB 5.25" Internal Floppy Disk Drives



17101

- IBM PC/XT and higher compatibles
- Size: 5.8"W x 8.1"D x 1.6"H

126957: double-sided, faceplate

- Weight: 3.9 lbs.

17101: double-sided, high density, gray faceplate

- Weight: 2.2 lbs.
- One-year warranty

Part No.	Product No.	Manufacturer	1	10
126957	6450207	IBM (360KB)	$29.95	$26.95
17101	FD55G	Teac (1.2MB)	39.95	35.95

JAMECO® External CD-ROM Cases



129710

- SCSI-I or IDE interface
- Streamlined appearance
- Metal body with plastic front panel
- RCA jack
- SCSI-ID address selector on SCSI model (for P/N 126391)
- 50 watt universal switching power supply
- Size: 6.5"W x 11.8"D x 2.0"H
- Weight: 3.8 lbs. • P/N 129710: One-year warranty

126391: Use cable (P/N 73162, pg 175) for connections

Part No.	Description	1	10
126391	SCSI CD-ROM external case	$49.95	$44.95
129710	IDE CD-ROM external case	79.95	71.95

Internal CD-ROM Drives



181745

- 5.25" half-height design
- Interface/type: ATAPI/EIDE
- Includes software and audio cable
- One-year warranty
- Manufacturer varies

181745: 3600KB/sec. • Slot type
149307: 3600KB/sec.
162042: 6300KB/sec.

Part No.	Speed	Buffer	Wt. (lbs.)	1	10
181745	24X	128KB	2.3	$49.95	$39.95
149307	24X	256KB	2.6	49.95	39.95
162042	44X	128KB	2.5	59.95	49.95

JAMECO® Internal CD-ROM Drive

SCSI-I Interface



- System requirements: Windows® 98 or higher
- 5.25" half height design
- Interface type: SCSI interface
- Includes audio cable and manual
- Size: 5.8"W x 1.6"H x 8.2"D • Weight: 2.1 lbs.

Part No.	Product No.	Speed	Price
181219	CR506B	8X	$49.95

JAMECO® CD-ROM Cables



136928 127546 168612

Connects your CD-ROM directly to your sound card making installation quick and easy!

- 2 x 28 AWG • Weight: .02 lbs.

127546:

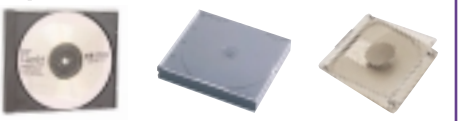
- Compatible with most CD-ROMs

168612:

- For use with Creative Labs, Sony or generic sound cards
- 3 connectors on each end of wire: 4-position (.100") housing connector; 4-position (.100") Molex type keyed connector; 3-position (.100") Molex type keyed connector

Part No.	Connection from Sound Blaster to	Length	1	10	50
136928	Panasonic	20"	$2.95	$2.49	$1.95
127546	Sony/MPC2	25"	3.95	3.49	2.95
168612	Universal	18"	3.95	3.49	2.95

JAMECO® CD-ROM Accessories



172179 132265 76591

172179: Single CD case (w/ HP case)

76591: For caddy-mount CD-ROM drives

132265: Plastic case holds up to 3 CDs

148179: Holds 24 CDs (in clear sleeves) • One-year warranty



148179

Part No.	Description	Wt. (lbs.)	1	10	50
172179	Single jewel case	0.3	$.49	$.39	$.29
132265	3 CD jewel case	0.3	1.65	1.45	.99
76591	Caddy	0.2	5.95	5.35	4.49
148179	Carrying case	0.7	8.95	7.95	6.49

ATX Motherboard for Pentium® MMX 90–233MHz

ALI M1541 Chipset

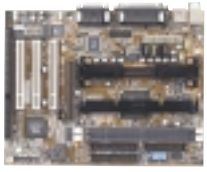


- Award BIOS
- Windows® plug and play compatible
- Socket 7 type
- Supports Intel Pentium® MMX 90–233MHz; Cyrix 686; AMD K-5/K-6
- Supports (3) 168-pin DIMM memory upgradeable to 768MB
- (4) PCI slots, (3) ISA slots; (1) AGP slot
- On-board I/O controller: (2) IDE ports; (1) floppy drive port; (2) serial ports; (1) parallel port; (2) USB-A female ports
- Async serial ports with high speed 16C550 and 16-byte FIFO, and parallel port supports EPP/ECP/Bi-directional mode
- PS/2 (keyboard and mouse); (2) USB-A female; (2) 9-pin male serial; & (1) 25-pin female parallel ports
- 20-pin ATX type power connector
- Includes manual, 3.5" drivers, and cable
- Size: 12.0"L x 7.5"W • Weight: 1.9 lbs.

Part No.	Description	1	10
173307	Pentium® MMX 90-233MHz ...	$79.95	$71.95

ATX Motherboard for Pentium® II 233-450 / Celeron™ 266-333MHz

VIA Apollo PRO VT82C691 & VT82C596 Chipset



- Award BIOS
- Single slot type 1 for PII and Celeron processors
- (2) 168-pin DIMM sockets that support SDRAM and EDO DRAM upgradable to 768MB
- (1) AGP slot, (1) ISA slot and (3) PCI slots
- On board (2) IDE interface that supports (4) IDE devices, and floppy drive interface
- PS/2 keyboard and mouse, (2) USB ports, (2) serial ports, (1) parallel port, game port and audio I/O jacks on board (modular type connectors)
- 20-pin ATX form factor power connector
- Includes cable, manual, retention mechanism and CD-ROM drivers
- Size: 9.6"L x 7.5"W • Weight: 2.1 lbs.

Part No.	Description	1	10
168250	Pentium® II motherboard	$79.95	$69.95

ATX Motherboard for Pentium® II 233–333MHz

W/ AGP Video Port

82440EX AGP/PCI/ISA chipset



- Single slot type 1 socket for Pentium® II and Celeron Processors • Award BIOS
- (2) 168-pin DIMM sockets that supports SDRAM up to 256MB
- (2) PCI and (2) ISA slots
- On-board: ATI 3D Rage Pro Turbo AGP video card with 4MB of memory, sound card with ESS chipset, (2) IDE ports that supports 4 IDE devices, and floppy drive port
- PS/2 female keyboard and mouse, (2) USB-A female, DE9 male serial port, DB25 female parallel, HDDB15 female AGP video, DA15 female game, (3) audio I/O jacks ports on board • 20-pin ATX form factor
- Includes cable, manual, and CD-Rom drivers
- Size: 9.6"L x 9.0"W • Weight: 1.2 lbs.

Part No.	Description	1	10
173391	Pentium® II motherboard.....	$69.95	$62.95

JAMECO ATX Motherboard for Pentium® II 233–333MHz / Celeron 266–366MHz

Intel i82440LX Chipset



- Award BIOS
- Single slot type 1 for Pentium® II and Celeron processors
- (4) PCI, (2) ISA, (1) AGP slot
- (3) 168-pin DIMM sockets that supports EDO and SDRAM upgradeable to 768MB
- On board I/O controller: (2) IDE ports; (1) floppy disk port, and (1) IrDA headers
- PS/2 keyboard and mouser, (2) USB type A female, (2) 9-pin male serial; (1) 25-pin female parallel (modular type) connectors on board
- 20-pin ATX form factor power connector
- Includes manual, cable, retention mechanism, and 3.5" disk
- Size: 12.0"L x 7.1"W • Weight: 2.3 lbs.

Part No.	Description	1	5
181761	Pentium® II motherboard...	$69.95	$62.95

JAMECO ATX Motherboard for Dual Pentium® II 233–300MHz and Pentium® Pro 150–200MHz

Intel 440FX Series Chipset



- AMI BIOS • Dual Socket 1 type
- Windows® Plug and Play compatible
- Support Pentium® II 233–300MHz; Pentium® PRO 150–200MHz (requires adapter) processors
- (8) 72-pin SIMMS upgradeable to 1GB of memory
- (5) PCI and (3) ISA slots with (1) shared PCI/ISA slot • 20-pin ATX power connector
- On board I/O controller: (2) EIDE ports; (1) floppy port; (2) USB ports, (1) infrared port
- PS/2 female keyboard and mouse; (2) 9-pin male serial; (1) 25-pin female parallel connectors
- Includes manual, cables, and retention mechanism • Size: 12.0"L x 9.8"W • Weight: 2.9 lbs.

Part No.	Description	1	10
180241	ATX Dual Pentium® II and Pentium® Pro motherboard	$149.95	$134.95

Intel R440LX Dual Pentium® II 233–300MHz ATX Server Motherboard

Intel 82443LX AGP chipset



- Dual slot type 1 for Pentium® II processors
- 512KB cache ram on board
- (4) 168-pin DIMM sockets that supports SDRAM upgradeable to 512MB
- (4) PCI and (1) ISA slots
- On-board: (2) IDE ports, supports up to 4 IDE devices; (1) Adaptec AIC7800 SCSI port; (1) floppy drive port; (1) serial port; (1) parallel port; Cirrus Logic CL-GD5446 SVGA controller card with 1MB of memory; Intel 82557 PCI LAN controller (10/100 BaseT)
- PS/2 Keyboard and mouse, DE9 male serial; HDDB15 female; DB25 female RJ45 modular jack connectors
- (2) 20-pin ATX type power connectors
- Includes manual, cable, CD-ROM drivers, and CD-ROM LAN desk software
- Size: 13"L x 12"W • Weight: 4.8 lbs.

Part No.	Description	Price
180275	Pentium® II server motherboard.....	$199.95

Intel L440GX+ Dual Pentium® III ATX Server Motherboard

Intel 440GX AGP Chipset



- Dual socket 1 type
- Supports PIII 600E - 850MHz processors
- Supports (4) 168-pin DIMM memory upgradeable to 2GB of memory
- On board I/O controller: (2) IDE ports; (2) SCSI ports (Adaptec AIC 7896N); (1) floppy port; (1) video with 2MB of memory on board (Cirrus Logic CL-GD5480); Network interface card (Intel 82559 PCI Lan 10/100Mbps fast ethernet); (2) serial ports; (10 parallel ports; (2) type A female USB ports
- (6) PCI and (1) ISA slots
- PS/2 keyboard and mouse; (2) 9-pin male serial; (1) 25-pin female; RJ45 modular plug; (2) type A female USB; (1) 15-pin high density female connectors
- 20-pin ATX type power connector
- Includes manual, cable, and CD-ROM resource
- Size: 13"L x 12"W • Weight: 3.7 lbs.

Part No.	Description	Price
180283	Dual Pentium® III motherboard	$199.95

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Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

JAMECO® AT Motherboard for Pentium® 75–100MHz



- Phoenix BIOS
- Socket 5 type
- Support Intel Pentium® 75MHz to 100MHz
- Supports (4) 72-pin SIMMs upgradeable to 128MB
- (3) PCI, (3) ISA, (1) shared PCI/ISA
- On-board I/O controller: (2) IDE ports; (1) floppy port; (2) serial ports; (1) parallel port
- Supports 16550 compatible UARTs for on board high speed serial ports, EPP/ECP bidirectional mode
- 5-pin DIN female connector for keyboard
- 12-pin AT form factor power connector
- Includes manual, and cables
- Size: 13.1"L x 8.6"W • Weight: 2.7 lbs.

Part No.	Description	Price
124644	Pentium® 75MHz–166MHz	$59.95

JAMECO® AT Motherboard for Pentium® 75–200MHz

Intel 82430VX Chipset



- AMI BIOS
- 256KB cache on board upgradeable to 512KB
- Socket 7 type
- Support Intel Pentium® 75-200MHz; Cyrix 686; AMD 586
- Supports (4) 72-pin SIMM and (1) 168-pin DIMM upgradeable to 128MB
- (4) PCI and (3) ISA with (1) PCI/ISA shared slot
- On-board I/O controller: (2) IDE ports; (1) floppy drive port; (2) serial ports; (1) parallel port
- 5-pin DIN (AT) keyboard connector
- 12-pin AT type power connectors
- Includes manual and cables
- Size: 11"L x 8.6"W • Weight: 2.6 lbs.

Part No.	Description	1	10
180259	Pentium® 75–200MHz	$69.95	$62.95

JAMECO® AT Motherboard for Pentium® MMX 75–200MHz



- Award BIOS
- Socket 7 type
- Supports Intel Pentium® MMX 75–200MHz; Cyrix 686; AMD K-5
- Supports (4) 72-pin SIMM and (2) 168-pin DIMM upgradeable to 128MB
- (3) PCI and (4) ISA slots
- 256KB cache on board upgradeable to 512KB
- On board (2) EIDE interface that supports (4) EIDE devices; (1) floppy drive interface; (2) 16550 compatible fast serial ports; (1) SPP/ECP/EPP parallel port; (1) PS/2 port
- 5-pin DIN AT keyboard connector
- 12-pin AT type form factor power connector
- Includes manual and cables
- Size: 11"L x 8.6"W • Weight: 2.2 lbs.

Part No.	Description	1	10
180267	Pentium® MMX 75–200MHz	$69.95	$62.95

386SX-20MHz Computer System

VLSI 82C331 and 82C320 Chipset



monitor not included

- Intel 80386SX-20MHz CPU
- 4MB of memory (expandable to 32MB using 4MB modules)
- (4) 16-bit ISA and (1) 8-bit ISA slot
- 5.25" floppy drive (360Kb/1.2MB)
- (6) back panel slots
- On board controller for floppy drive and standard AT hard drive
- DB25 female parallel port, (2) DE9 male serial ports, and (1) 5-pin DIN AT keyboard port
- 165 watt AT type switchable power supply
- System speaker, LED indicators for high, low, and HDD
- Includes keyboard, power cord, manual, 5.25" DOS 5.0, and DOS manual
- Size: 15.2"W x 15.1"D x 6.0"H • Weight: 32.4 lbs.

Part No	Description	Price
180401	386 computer system	$99.95

TDM PC Card Slot Fancard II

Increase air flow between cards

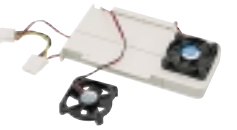


- CFM: 25
- MTBF: 30,000 hours
- Can be installed into any ISA slot
- Circulates air within case to keep all components from overheating
- CE approved
- Weight: 0.5 lbs. • One-year warranty

Part No.	Description	1	10
79020	Fancard II	$19.95	$17.95

PC Card Slot Air Exhaust Fan

Exhaust / Intake Air



- Insert into card slot (non-electrical connection)
- The airduct can be extended and fan assembly reversed
- 12VDC 20 CFM airflow eliminates hot air out of case while increasing flow through case
- Fan: CE/TUV/UL/CSA approved
- Weight: 0.4 lbs. • One-year warranty

Part No.	Description	1	10	25
124492	PC exhaust fan	$14.95	$13.49	$11.95

JAMECO® PC Internal Cooling Fan

Direct Air Flow to Internal Hot Spots



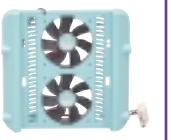
- 27 CFM
- Noise: 27dBa
- Fan life: 25,000 hrs
- Rated voltage: 12VDC @ 200mA
- Input power: 1.44W max.
- Operating voltage: 12VDC
- Connector: 4-pin male/female (pass thru) molex type
- Size: 3.4"W x 1.3"D x 3.6"H • Weight: 0.5 lbs.

Part No.	Description	1	10	25
138966	System cooling fan	$11.95	$10.49	$8.95

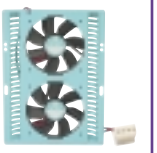
3.5" and 5.25" Hard Drive Cooling Assemblies

Dual fans for even cooling

Keep your hard drive cool by using less space. These hard drive-cooling fans have 2 high airflow fans that provide 70% heat dissipation.



175302



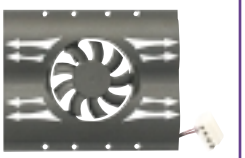
175311

- Dual 12V sleeve bearing fan
- Power consumption: 1.44W each
- RPM per fan: 3800
- Combined airflow: 28 CFM
- Easy installation
- UL, CSA, CE approved fans
- Includes mounting hardware
- Size: (175302) 5.7"L x 5.5"W x 1.2"H
- Size: (175311) 5.5"L x 4.0"W x 0.5"H
- Weight: 0.4 lbs.

Part No.	Description	1	10	25
175302	HD cooler (5.25")	$19.95	$17.95	$15.95
175311	HD cooler (3.5")	19.95	17.95	15.95

3.5" Hard Drive Cooling Fan

Ball Bearing Fan for Reliability

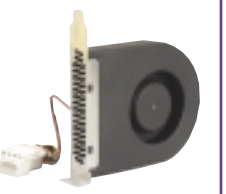


- Extends hard disk life and reliability
- Fits most 3.5" hard drives
- Ball bearing
- Air flow: 20 CFM
- Power output: 1.92 watts
- Reduces hard disk temperature
- Operating voltage: 12VDC @ 160mA
- Includes mounting hardware
- Size: 5.0"L x 4.0"W x 0.5"Thick • Weight: 0.2 lbs.

Part No.	Description	1	10	25
175521	HD cooling fan	$14.95	$13.49	$11.95

JAMECO® Back Panel Cooling Fan

Exhausts Hot Case Air



- Type: sleeve axial fan
- Back panel mountable
- Airflow: 42 CFM
- Noise ratio: 26 dBa
- Power: 1.8W
- Operating voltage: 12VDC @ 200mA
- One-year warranty
- 10.5" wire with 4-pin Molex power connector
- Size: 4.3"L x 3.5"H x 1.1"Thick • Weight: 0.3 lbs.

Part No.	Description	1	10	50
152240	PC cooler fan	$19.95	$17.95	$15.95

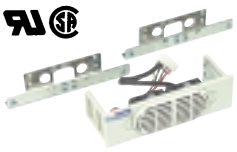
JAMECO® 3.5" Hard Drive Cooling Fan



- Type: sleeve axial fan
- 3.5" drive bay mountable (includes mounting screws)
- Power: 1.8 watts
- Airflow: 32 CFM, exhausts hot air from case through front panel vent
- Noise ratio: 26 dBa
- Operating voltage: 12VDC @ 200mA
- 9.5" wires with 4-pin Molex type power connector
- Size: 4.9"L x 4.0"W x 1.0"H • Weight: 0.3 lbs.

Part No.	Description	1	10	25
152258	HD-300 cooling fan	$11.95	$10.95	$9.95

InClose Hard Drive Cooling Fans and 3.5" Mounting Brackets



Now you can keep your hard drive cool and not consume valuable space! The "Bay Cooler" has two efficient fans mounted on a 5.25" bay front panel which can be used in front of or in the drive bay above your hard drive.

- Two 12VDC @ 70mA fans
- Easy access air filter
- Beige vented face plate replaces bezel on a 5.25" bay
- Y adapter for any hard drive
- Weight: 0.3 lbs.
- Includes 3.5" mounting kit
- One-year warranty

Part No.	Description	1	10	25
135925	Hard drive cooler	$14.95	$13.49	$11.95

AMS 3.5" Hard Drive Bracket with 3 Cooling Fans



This cooler bracket fits a 5.25" bay in front of your computer case. This bracket also fits 3.5" hard drives and other internal 3.5" devices.

- (3) 12VDC @ 90mA fans for cooling
- CFM rating: 5.6/fan
- Easy access air filter
- Vented beige face plate replaces 5.25" bezel of 5.25" bay
- Y adapter for hard drive and fan
- Includes mounting hardware
- Weight: 0.8 lbs.

Part No.	Description	1	10	25
170595	Hard drive cooler	$24.95	$22.49	$19.95

PC 2-Ch Fans w/ Back Light

148742



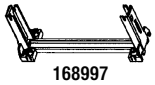
- Fits 5.25" bay
- Operates on CR2032 3V battery (included)
- Requires 12VDC for fans (5.25" drive connectors)
- Audible overheat alarm
- 5.3 CFM (per fan)
- Controls two sensors
- Weight: 0.5 lbs.
- Size (digital display): 1.86"W x 1.0"H
- Size: 6.0"W x 2.4"D x 1.7"H
- One-year warranty

Optional sensor: P/N 148769 for CPU monitoring

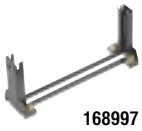
Part No.	Description	1	10	25
148742	2-ch super cooler	$39.95	$35.95	$32.49
148769	Sensor (flat type) CPU	4.95	4.49	3.95

Integrated Retention Module

168997: Pentium® II Retention Module



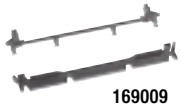
168997



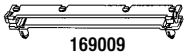
168997

- Compatible with Pentium® processors (P/N 151651, pg 13)

169009: Pentium® II Heat Sink Support Base w/ plastic fasteners



169009



169009

- Compatible with Pentium® heat sinks (P/N 151298, pg 79)

Part No.	Description	1	10
168997	Pentium®II retention module	$3.95	$3.49
169009	Pentium®II heat sink support	3.95	3.49

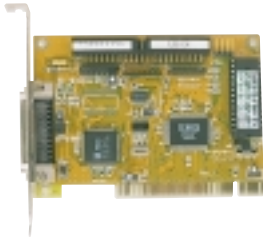
ISA Fast SCSI-II Controller Card



- Compatible with DOS, Windows®, Windows® NT, Windows® 95, OS2 Netware, and SCO Unix
- Internal and external SCSI-II connectors
- Includes setting sheet, ribbon cable, and software (3.5" disk)
- One-year warranty
- Size: 6.3"L x 2.9"W
- Weight: 0.6 lbs.

Part No.	Description	1	10
149294	ISA SCSI-II controller card	$44.95	$39.95

JAMECO PCI Plug & Play SCSI-II Controller Card

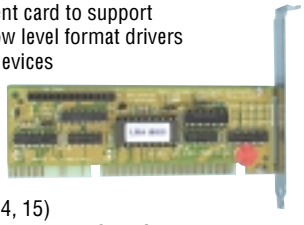


- Windows® 95 compatible
- Plug and play design
- Internal and external SCSI II 16-bit connectors
- Disconnect/reconnect, command tagged queing, scatter/gather, multi-threaded I/O operation support
- Supports most SCSI devices
- Supports Popular Operating System
- 133MB/S PCI-bus master transfer rate
- Includes manual, ribbon cable and software
- Size: 4.8"L x 3.0"W
- Weight: 0.7 lbs.
- One-year warranty

Part No.	Description	1	10
138608	PNP PCI SCSI-II card	$89.95	$79.95

JAMECO ISA Enhanced IDE Controller Card – LBA Support

Supports CD-ROMs and Low Level Format



- BIOS enhancement card to support LBA mode and low level format drivers
- Supports 2 IDE devices
- Support PIO mode 2 to 4, up to 8GB IDE HDD
- Primary and secondary port selectable (IRQ 14, 15)
- Supports FAST IDE and IDE CD-ROM (Atapi)
- Includes manual and cable
- Size: 6.2"L x 1.8"W
- Weight: 0.6 lbs.
- One-year warranty

Part No.	Description	1	10
161031	IDE, LBA card (16-bit)	$19.95	$17.95

JAMECO ISA EIDE Super I/O Controller Card

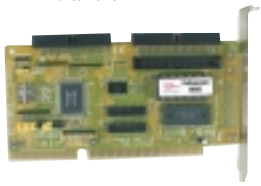


- Supports: 4 EIDE devices (HD, CD-ROM, tape drive), 2 floppy drives, 2 parallel ports, SPP/EPP/ ECP, 2 serial ports, 16550 compatible, 1 game port
- Compatible with DOS 6.2, Windows® 3.1, Windows® Workgroups 3.11, OS/2 and Netware 3.1X, 4.01
- Intelligent ROM BIOS automatically configures EIDE ports
- Includes manual and cables
- One-year warranty
- Size: 6.5"L x 4.0"W
- Weight: 1.1 lbs.

Part No.	Description	1	10
138624	ISA-EIDE controller card	$59.95	$54.95

JAMECO ISA Enhanced IDE Card

Supports 4 EIDE Devices (HD, CD-ROM, Tape Drive)



Provides multiword DMA transfer hardware (up to 8.33MB/sec.).

- ROM BIOS will auto-configure the hard drive parameters with any set-up feature
- Includes cables and manual
- Weight: 0.7 lbs.
- One-year warranty

Part No.	Description	1	10
127386	Enhanced controller	$54.95	$49.95

JAMECO ISA IDE Controller Card

Supports 2 IDE devices including CD-ROM

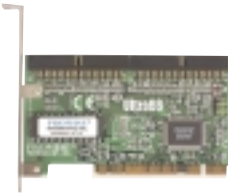


- Jumper selectable IRQ 14 for primary and IRQ 15 for secondary ports
- Address selectable 1F0, 3F7 for primary and 170, 177 for secondary
- One-year warranty
- Supports 2 IDE devices including CD-ROM
- Includes IDE cable and instruction sheet
- Size: 6.2"L x 1.8"W
- Weight: 0.4 lbs.

Part No.	Description	1	10
167222	ISA IDE controller card	$19.95	$17.95

JAMECO PCI Ultra ATA/66 & Enhanced IDE HD / CD-ROM Controller Card

Supports 2 Ultra ATA/66 and/or 2 EIDE Devices

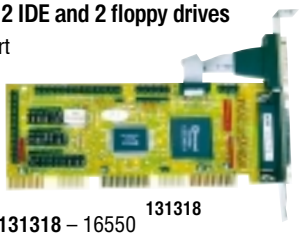


- Compatible with DOS 5.0 and higher, Windows® 3.x/95/98/ NT3.x/NT4.x
- True Plug and play support
- Ultra 66 BIOS on board supports Ultra ATA66/ ATA33, EIDE, and ATA-2 devices
- Includes 80 wire/ 40-pin cable (for Ultra ATA/66) and 3.5" drivers
- Size: 4.8"L x 2.1"W
- Weight: 0.3 lbs.

Part No.	Description	1	10
167329	Enhanced IDE card	$44.95	$37.95

JAMECO ISA IDE Super 16-Bit I/O Plus Cards

Supports 2 IDE and 2 floppy drives



131318

- Parallel printer port (P/N 131318 is bi-directional)
- Game port
- Two RS232 serial ports
- UART emulation: **67061** – 16450; **131318** – 16550
- Includes manual and cables
- Weight: 0.9 lbs.
- One-year warranty

Part No.	Description	1	10
67061	16450 UART I/O card	$14.95	$13.49
131318	16550 UART I/O card	29.95	26.95

JAMECO ISA RLL Hard Disk Drive Controller

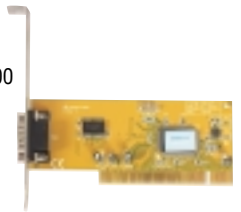


- XT compatible
- Supports two hard disk drives; cables not included
- Weight: 0.6 lbs.

Part No.	Description	Price
112088	RLL 8-bit HD controller	$5.95

JAMECO PCI Serial Card

Single 16C550 Port



- System requirements: 486/586/Pentium® and higher compatibles; Windows® 95/98/NT/2000
- Plug and play ready
- 32 bit PCI bus interface
- Transfer rates up to 921Kb/sec
- 32 byte FIFO
- Supports IRQ sharing
- Size: 4.8"L x 1.8"W
- Weight: 0.4 lbs.
- One-year warranty

Part No.	Description	1	10
171361	Single serial card	$39.95	$35.95

JAMECO 32-Bit PCI I/O Card

(2) Serial 16C650 and (2) Parallel ECP/EPP/SPP/BPP

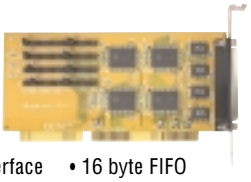


- System requirements: 486/586/Pentium® and higher compatible; Windows® 95/98/NT/2000; available PCI slot
- Plug and Play compliant
- Serial port: SUN1889 chipset; 32 byte FIFO; compatible with 16V450.550.650 chip; RS-232 IEEE standard interface; 921Kb/sec transfer rate
- Parallel port: SUN1689 chipset, 32 byte FIFO; ACC3203/ST78C36/HT6535 compatible chips; ECP/EPP/SPP/BPP IEEE standard interface; 21.4Mb/sec transfer rate
- (2) DE9 male connectors and (2) DB25 female connectors
- Includes manual, cable, and CD-ROM drivers
- Size: 4.7"L x 3.6"W
- Weight: 0.8 lbs.

Part No.	Description	1	10
173260	PCI 4-port card	$69.95	$62.95

JAMECO ISA Card

Quad High Speed Serial Port

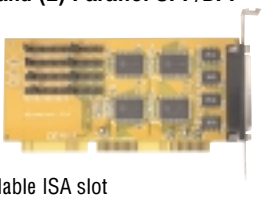


- System requirements: 486/586/Pentium® and higher compatibles; Windows® 95/98/NT/2000 compatible
- RS-232 V.24 serial interface
- 16 byte FIFO
- Transfer rate of up to 460Kb/sec
- IRQ (3, 4, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- SUN 1699 chipset
- Includes manual, 37-pin male to (4) DB25 male cable, and drivers on CD-ROM
- Weight: 1.0 lb.
- Size: 6.7"L x 3.0"W
- One-year warranty

Part No.	Description	1	10
172398	ISA 4 port serial	$39.95	$35.95

JAMECO ISA 16-bit I/O Card

(2) Serial 16C650 and (2) Parallel SPP/BPP

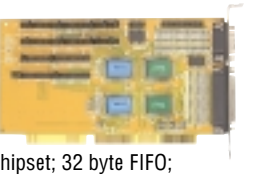


- System requirements: 486/586/Pentium and higher compatible; Windows® 95/98/2000/NT; available ISA slot
- Serial port: SUN1699 chipset; 32 byte FIFO; RS-232 IEEE standard interface; 16C650/550/450 compatible chip; 921Kb/sec transfer rate
- Parallel port: SUN1689 chipset; 32 byte FIFO; ST78C36/HT6535 compatible chip; SPP/BPP IEEE standard interface; 21.4Mb/sec transfer rate
- Jumper configurable IRQ (3, 4, 5, 7, 9 ,10, 11, 12, 15), and address
- (2) DE9 male connectors and (2) DB25 female connectors
- Includes manual, cable, and CD-ROM drivers
- Size: 7.0"L x 3.6"W
- Weight: 0.8 lbs.

Part No.	Description	1	10
173278	ISA 4-port card	$39.95	$35.95

JAMECO ISA I/O Card

(2) Serial 16C650 and (2) Parallel ECP/EPP/SPP/BPP High Speed Ports

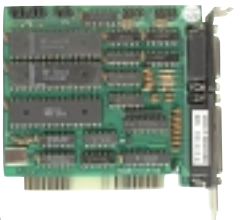


- System requirements: 486/586/Pentium and higher compatible; Windows® 95/98/2000/NT; available ISA slot
- Serial port: SUN1699 chipset; 32 byte FIFO; high-speed RS-232 V.24 serial interface; 921Kb/sec transfer rate
- Parallel port: SUN1689 chipset; 32 byte FIFO; ECP/EPP/SPP/BPP interface mode; 21.4Mb/sec transfer rate
- Jumper selectable IRQ (3, 4, 5, 7, 9, 10, 11, 12, 15), address, parallel port mode, DRQ (1, 2, 3) and DACK (1, 2, 3)
- (2) DE9 male connectors and (2) DB25 female connectors
- Includes manual, cable, and CD-ROM drivers
- Size: 7.0"L x 3.6"W
- Weight: 1.1 lbs.

Part No.	Description	1	10
173286	ISA 4-port card	$44.95	$39.95

JAMECO ISA Input/Output Card

Dual 16450 Serial/Single Parallel Ports



- IBM AT and higher compatibles
- One parallel printer port
- Two RS232C serial ports
- One game port
- All ports can be disabled
- Primary: COM1 or COM3
- Secondary: COM2 or COM4
- Interrupt requests for primary and secondary serial ports: IRQ 3 or 4
- Weight: 0.4 lbs.
- Includes cables and manual
- One-year warranty

Part No.	Description	1	10	25
105611	8-bit I/O card	$19.95	$17.95	$15.95

JAMECO ISA Input/Output Card

Dual 16550 Serial/Single Parallel Port

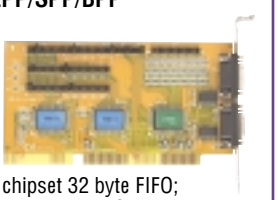


- IBM PC/XT/AT and compatibles
- 2 serial ports (9-pin male and 25-pin male)
- 16550 UART w/ 16 byte transmit/ receive FIFO
- On-chip auto flowcontrol with programmable AUTO RTS and CTS
- Configurable COM1 to COM8 on each channel with IRQ 10, 11, 12, 14, 15
- Selectable four frequency for operation clock to support 115.2K to 921.6 Kbps
- 1 parallel port (25-pin female cable assembly)
- Supports one multi-mode parallel port w/ EPP/ECP
- ECP/EPP/BPP/SPP mode selectable
- Supports LPTI - LPT6 with IRQ 3, 4, 5, 7, 9, 10, 11, 12, 14, 15
- Supports DMA channel 1 and 3 for ECP mode
- Includes manual and 25-pin female panel bracket cable assembly
- Size: 5.2"L x 3.1"W
- Weight: 0.6 lbs.
- One-year warranty

Part No.	Description	Price
161525	16-bit I/O card (16550 UART)	$24.95

JAMECO ISA I/O Card

(2) Serial 16C650 and (1) Parallel ECP/EPP/SPP/BPP



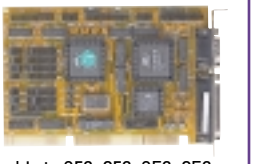
- System requirements: 486/586/Pentium® and higher compatible; Windows® 95/98/ 2000/NT; available ISA slot
- Serial port: SUN1699 chipset 32 byte FIFO; RS-232 IEEE standard interface; 16C650/ 550/450 compatible chip; 921Kb/sec transfer rate
- Parallel port: SUN1689 chipset; ACC3203/ST78C36/ HT6535 compatible chip; ECP/EPP/SPP/BPP IEEE standard interface; 21.4Mb/sec transfer rate
- Jumper configurable IRQ (3, 4, 5, 7, 9, 10, 11, 12, 15), address, parallel mode, DRQ (1, 2, 3) and DACK (1, 2, 3)
- (2) DE9 male connectors & (1) DB25 female connector
- Includes manual, cable, and CD-ROM drivers
- Size: 6.1"L x 3.0"W
- Weight: 0.7 lbs.

Part No.	Description	1	10
173331	ISA 3-port card	$34.95	$31.49

JAMECO ISA Input/Output Card

4 Serial/3 Bi-directional Parallel Ports

16550 UART

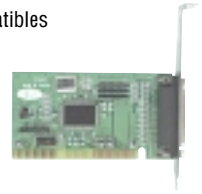


- 16 bit card
- IBM AT and higher compatibles
- Can be used in an 8-bit system with IRQ 3, 4, 5, 7
- Four serial ports – addressable to 3F8, 2F8, 3E8, 2E8
- Three parallel ports – addressable to 3BC, 378, 278
- All ports configurable to IRQ 3, 4, 5, 7, 9, 10, 11, 12, or 15
- Ports are jumper selectable and can be disabled
- Parallel ports are bi-directional selectable
- UART chips emulate 16550 UARTs
- Cables and panel brackets included for all ports
- Three DB25 female parallel connectors
- Three DE9 male and one DB25 male serial connectors
- Includes manual
- Weight: 1.0 lb.
- One-year warranty

Part No.	Description	1	10	25
117971	16-bit I/O card	$59.95	$52.95	$46.95

JAMECO ISA Printer Card

Single Bi-directional Parallel Port

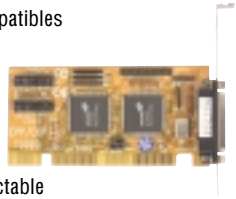


- PC/XT/AT and higher compatibles
- Single standard and bi-directional port
- Jumper selectable for printer address and port (LPT1 - LPT3)
- Jumper selectable for IRQ addressing (3, 4, 5, 7, 9)
- One-year warranty
- Size: 4.0"L x 2.0"W • Weight: 0.3 lbs.

Part No.	Product No.	1	10	25
155660	KW508G	$19.95	$17.95	$14.95

JAMECO ISA Printer Card

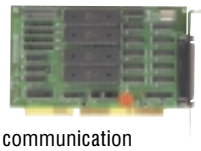
Dual Bi-directional Parallel Ports



- IBM AT and higher compatibles
- Supports ECP/EPP/SPP
- Select from IRQs: 3, 4, 5, 7, 9, 10, 11, 12, or 15
- Address selectable to LPT1-LPT6
- Print mode jumper selectable
- One-year warranty • Weight: 0.6 lbs.

Part No.	Description	1	10	25
132214	2-port printer card	$29.95	$26.95	$22.95

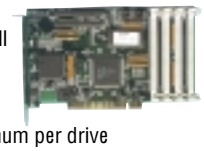
JAMECO ISA Serial Card



- Quad 16C550 serial port UNIX
- IBM AT and higher compatibles
- (4) serial ports (RS232 interface) for asynchronous communication
- (4) DB25 male connectors 7.25"L
- Weight: 1.1 lbs • One-year warranty

Part No.	Description	Price
104678	4-port serial card	$49.95

JAMECO PCI Enhanced IDE HD CD-ROM Controller Card



- Compatible with DOS/Windows®, OS.2, Novell Netware and other major operating systems
- Supports up to 4 IDE HDD/ CD-ROM drives, 4GB maximum per drive
- Supports 0-64 MB cache DRAM
- Supports enhanced IDE mode 3, 4 and 5
- Recommend P/N 148478 – pg 15 (4) for cache
- Will function without cache
- Includes manual, software and cable
- Size: 7.0"L x 4.0"W • Weight: 0.9 lbs.

Part No.	Description	Price
153672	Enhanced IDE card	$19.95

JAMECO ISA/IDE Disk Drive Adpater Controller Card

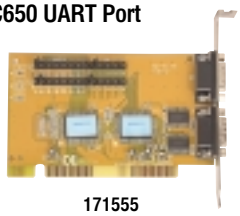


- Interface two IDE hard drives to system
- 16-bit IDE hard disk and floppy disk interface
- Works with any combination 360KB, 720KB, 1.2MB and 1.44MB
- Operates up to two floppy disk and two hard disk drives
- Includes operating manual and cable
- One-year warranty

Part No.	Description	Price
10250	16-bit HD/FD adapter	$19.95

JAMECO ISA Serial Cards

Single/Dual 16C650 UART Port



171555

- System requirements: 486/586/Pentium® and higher compatibles; Windows® 95/98/NT/2000
- Transfer rates up to 921KB/sec
- 16 byte FIFO
- IRQ (3, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- Includes manual & drivers on CD-ROM • Wt.: 0.5 lbs.

171504: Single High Speed Serial Port

- RS232 V24 standard serial interface
- (1) DE9 male connector • Size: 5.0"L x 2.0"W

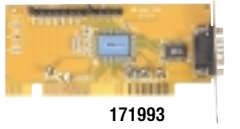
171555: (2) High Speed Serial Port

- (2) DE9 male connectors • Size: 5.0"L x 2.7"W

Part No.	Description	1	10
171504	Single serial card	$17.95	$15.95
171555	Dual serial card	24.95	22.49

JAMECO ISA High Speed Serial Cards

Single/Dual 16C650 Serial Port



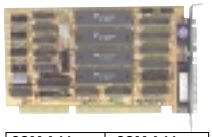
171993

- System requirements: 486/586 or higher compatible, Windows® 95/98/NT
- 32 byte FIFO
- IRQ (3, 5, 7, 9, 10, 11, 12, 15) and address jumper configurable
- DE9 male connector
- Size: 5.0"L x 2.0"W • Weight: 0.5 lbs.
- Includes manual and drivers on CD-ROM

Part No.	Description	1	10
171993	Single serial card	$19.95	$17.95
172380	Dual serial card	29.95	26.95

JAMECO ISA High-Speed Serial Card

Quad 16C550 Serial Ports



COM Address		COM Address	
1	3F8	5	3F0
2	2F8	6	3E0
3	3E8	7	2E0
4	2E8	8	260

- IBM AT and higher compatibles
- Four serial ports; two each DE9M and DB25M
- High-speed 16C550 UARTs w/16 or 32byte FIFO
- IRQs: 3, 4, 5, 9, 10, 11, 12, or 15
- Includes cables and instruction sheet
- Weight: 0.7 lbs.
- One-year warranty

Part No.	Description	1	10
132572	4-port hi-speed serial card	$49.95	$44.95

Addonics ISA "Extended" I/O Card

Quad 16550 Serial/Dual Bi-directional Parallel Ports



- IBM AT and higher compatibles
- Win® 95 compatible
- Configurable using COM 1-8 and LPT 1-3
- IRQs: 3, 4, 5, 7, 9, 10, 11, 12, 14, 15 for all serial and parallel ports
- UART chips emulate 16550 • 16-byte FIFO buffer
- Includes manual, quick reference card and cables
- Weight: 1.7 lbs. • Two-year warranty

Part No.	Description	1	10
130876	Extended I/O card	$119.95	$107.95

JAMECO ISA High Speed Parallel Cards

21.4MB/ sec Bi-Directional



171651

- IBM PC/AT compatible with 16-bit ISA slot
- SupportsECP/EPP/ SPP/BPP standards
- Printer mode, address and IRQ (3, 4, 5, 7, 9, 10, 11, 12, 15) jumper configurable
- 32 byte FIFO • DB25 female connectors
- Supports DACK 1-3 and DRQ 1-3
- Includes manual, cable and drivers on CD-ROM

171651: Single Parallel Card

- Size: 5.0"L x 2.2"W • Weight: 0.5 lbs.

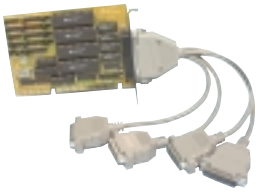
171539: 3 Port Parallel Card

- Size: 6.8"L x 3.4"W • Weight: 0.8 lbs.

Part No.	Description	1	10	25
171651	Single parallel card	$19.95	$17.95	$15.95
171539	3-port parallel card	39.95	35.95	32.95

DOLPHIN PERIPHERALS ISA High Speed Serial Card

Quad 16C650 Serial Ports

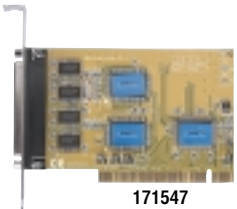


- IBM PC/AT and AT compatibles
- 16-bit ISA interface
- MS-DOS, Windows® 3.x, 95 and NT compatible
- Four 16C650 ultra high-speed serial ports
- Supports COM 1-8 and IRQs 3-15 (jumper selectable)
- 32 byte FIFO • Supports IRQ sharing
- Includes cable and manual
- Size: 6.2"L x 4.3"W • One-year warranty

Part No.	Product No.	Wt. (lbs.)	1	10
152291	4042A	1.2	$49.95	$44.95

JAMECO PCI High Speed Serial Cards

2/4/8 16C650 Serial Ports



171547

- System requirements: 486 and higher compatible, Windows® 95/98/NT/2000
- Plug and play compatible
- Standard RS232 interface
- Transfer rate: up to 921KB/sec
- 32 byte FIFO • Supports IRQ sharing

172005: Dual 16C650 Serial Ports

- (2) 9-pin male connectors
- Size: 4.7"L x 2.8"W • Weight: 0.5 lbs.

171547: Quad 16C650 Serial Ports

- Includes manual, cable (37-pin male to (4) DB25 male) and drivers on CD-ROM
- Size: 4.7"L x 2.8"W • Weight: 0.9 lbs.

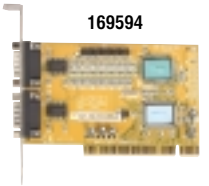
171660: (8) 16C650 Serial Ports

- Includes manual, internal cable with bracket, 2 cables (37-pin male to (4) DB25-male) and drivers on CD-ROM
- Size: 6.5"L x 3.6"W • Weight: 1.8 lbs.

Part No.	Description	1	10
172005	2-port PCI serial card	$59.95	$53.95
171547	4-port PCI serial card	119.95	107.95
171660	8-port PCI serial card	179.95	161.95

JAMECO PCI Ultra High Speed I/O Cards

Serial (16C550) and Parallel



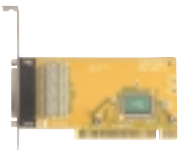
- 32-bit PCI bus with PCI bus 2.1 specification compliant
- Serial ports are software configurable w/ throughputs up to 921.6 Kbps
- Supports BPP/SPP mode compliant
- Windows® 95/98/NT 4.0 drivers supported

169594: • 2 Serial DE9P; 1 Parallel DB25S

Part No.	Description	Wt. (lbs.)	1	10
146691	Single parallel	0.5	$44.95	$39.95
163707	Dual parallel	0.5	49.95	44.95
146667	Dual serial (16C550)	0.1	49.95	46.95
169594	2 serial (16C550) 1 parallel	0.6	59.95	53.95

JAMECO PCI Ultra Parallel Card

Single Ultra High Speed Port



- System requirements: 486/586/Pentium® and higher compatibles; Windows® 95/98/NT/2000
- Supports ECP and EPP
- 32 byte FIFO • Transfers data up to 21.4MB/sec
- Supports IRQ sharing • Plug and play ready
- (1) DB25 female connector • 32-bit PCI interface
- Includes manual and drivers on CD-ROM
- Size: 4.7"L x 2.2"W • Weight: 0.5 lbs.

Part No.	Description	1	10
171926	PCI single parallel card	$39.95	$35.95

JAMECO PCI High Speed Combo Card

(2) 16C650 Serial / (1) ECP/EPP Parallel Port



- System requirements: 486/586/ Pentium® and higher compatibles; Windows® 95/98/NT/2000
- 16C650 UART compatible
- (2) ultra high speed RS232 ports and (1) high speed ECP/EPP parallel port
- Serial port transfer rate up to 921KB/sec and parallel port up to 21.4MB/sec
- 32 byte FIFO buffer • Supports IRQ sharing
- 32 bit PCI interface • Plug and play ready
- (2) DE9 male & (1) DB25 female connector w/ bracket
- Includes manual, cable and drivers on CD-ROM
- Size: 4.7"L x 2.9"W • Weight: 0.6 lbs.

Part No.	Description	1	10
172013	2 serial/1 parallel card	$69.95	$62.95

Panel Bracket Cable Assemblies





- Standard computer back panel brackets • Length: 12"
- Ribbon cable with header connector • Wt: 0.12 lbs.

149614/180179: Serial port (2)
149622: Parallel port (1)
179995: Serial port (2) and parallel (1)

Part No.	Description	1	10	25
149614	DE9M to 10-pin header DB25M to 10-pin header	$4.95	$4.49	$2.95
180179	DE9M to 10-pin header DB25M to 10-pin header	4.95	4.49	2.95
149622	DB25 to 26-pin header	4.95	4.49	2.95
179995	DE9M to 10-pin header DB25M to 10-pin header DB25F to 26-pin header	6.95	6.25	5.59

JAMECO VESA/IDE Super I/O Card

with On Board Super VGA Video Adapter

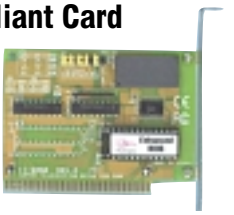
Supports 2 IDE, 2 floppy drives
Dual 16450 Serial, Parallel and Game Ports



- For use only with AT and compatibles with VESA local bus (PALM VL-BUS)
- Supports up to two IDE hard disk drives
- Supports up to two floppy disk drives: 1.44 MB, 1.2 MB, 720KB and 360KB densities
- Game port and parallel port • 16450 UART emulation
- Dual serial communication ports: COM1, COM3 and COM2, COM4
- 1MB video memory, expandable to 2MB using 8 pieces of P/N 42315 (pg 15)
- Max. resolution 1024 x 768/64K colors with 2MB of video memory installed • Weight: 1.4 lbs.
- Includes cables, spec sheet and driver diskette

Part No.	Description	1	10	25
149577	Super I/O w/ video	$14.95	$13.49	$9.95

JAMECO ISA Year 2000 Compliant Card



This card will replace your motherboard's BIOS with its own Year 2000 compliant version, affording your system millennium protection.

- For ISA systems (Intel i.86 based, or IBM PS/2 model 286), 386 and 486
- On board precise RTC chip, over 10 years of data retention
- On board advanced CMOS utility supports CMOS backup and restore features
- Includes installation guide • Size: 4.0"L x 2.8"W
- Weight: 0.4 lbs. • One year warranty

Part No.	Description	1	10
155301	ISA 2000 compliant card	$29.95	$26.95

JAMECO PCI 3-Port Firewire Card

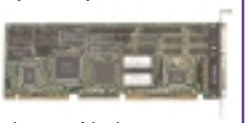
400 Mbps (IEEE-1394)



- Allows IEEE-1394 connections to standard PCI bus
- Easily connects to your digital camcorder, TV, VCR, DVD to your computer
- IEEE-1394 OHCI compliant
- PCI Rev. 2.2 compliant
- 100-400 Mbps transfer rates
- Plug and play compatible – devices can be added or removed without shutting down system
- 2.2V power consumption/ 5V input tolerant
- Peer to peer communication structure
- Supports up to 63 devices • Includes installation sheet
- Size: 4.8"L x 3.5"W • Weight: 0.5 lbs.

Part No.	Description	1	10	25
169156	Firewire card	$79.95	$69.95	$64.95

PROMISE VESA/IDE I/O Card



- For use with AT compatibles with VESA local bus
- 512KB on board memory, expandable to 1MB (use 4 256Kx 4 20-pin static ram chips)
- Supports up to 2 IDE devices (max. drive capacity: 2048 cylinders, 16 heads, 254 sectors)
- Supports two floppy drives (3.5" or 5.25" format up to 1.44MB)
- Two serial ports (COM 1/3 or COM 2/4) and one parallel port
- Serial port and parallel port are jumper configurable for IRQ and addressing
- DB25 female connector for parallel and DE9 male for serial
- Includes cables, manual, and 3.5" drivers
- Size: 9.5"L x 3.2"W • Weight: 1.5 lbs.

Part No.	Description	Price
180806	VESA I/O card	$29.95

Computer Cleaning Kits



- 3.5" head cleaning diskette, (1) bottle head cleaning fluid, CD-ROM drive laser lens cleaner, (1) bottle computer/ CD cleaning solution
- (20) anti-static wipes, (5) anti-static cleaning pads, (5) reusable swabs, (1) CD cleaning cloth
- Vacuum with accessories, tweezers and zipper case
- Size: 11.5"L x 6.2"W x 1.9"H • Weight: 1.2 lbs.

Part No.	Description	1	10
134527	Multimedia cleaning kit	$19.95	$17.95

JAMECO Bi-directional Serial / Parallel Converter

115.2kbps, 110 byte buffer



- One DB25 female connector, one Centronics 36-pin male connector
- DCE/DTE selectable
- Fully compatible with Windows® 95
- Baud rate: 300 bps - 115200 bps
- FCC class A certified, CE certified
- LED indicator for parallel busy status • Wt.: 0.3 lbs.
- Stop bits: 1 or 2 • Buffer size: 110 bytes
- Size: 3.3"L x 2.3"W x 1.0"H • One-year warranty

Part No.	Description	1	10	25
144961	Converter	$49.95	$44.95	$39.95

JAMECO Computer Brackets



Fig.: 1 2 3 4 5 6 7

- For securing cards into bus slots
- Fits standard PC/XT/AT cases • Length: 4.75"
- Can be used to expand card I/O • Weight: 0.04 lbs.
- See pg 60 for DB connectors

* 1.0" top end to first tab (center hole) – 2.5" tab to tab (center hole)

Reduced Pricing

Part No.	Description	Fig.	1	10	100
11754	Blank back panel	1	$1.25	$.99	$.75
139424*	Blank w/ board mt.	2	1.49	1.25	.99
101717	For DE9 connector	3	1.25	.99	.75
101733	For DB25 connector	4	1.25	.99	.75
101741	For DC37 connector	5	1.25	.99	.75
101830	For DE9 & DB25 conn.	6	1.25	.99	.75
101709	For DA15 & DB25 conn.	7	1.25	.99	.75

AT & ATX Vertical Computer Enclosures with Power Supply

250/300 Watt
- Slide-off side panel accesses roomy interior
- Includes power cord and 8Ω/0.5W speaker • 230V/115V switch
- Assorted attachment screws • One-year warranty

138798: AT Mid Tower Case
138801: AT Full Tower Case
- Front panel has six exposed half-height 5.25" drive bays, one exposed 3.5" drive bay, and two concealed 3.5" drive bays
- Back panel supports twelve expansion slots

140038/153066: ATX Mid Tower Cases • One internal 3.5" drive bay
- Back panel supports seven expansion slots • Three exposed 5.25" and two exposed 3.5" drive bays


Easy access through slide-off side panel


138798


138801

Part No.	Description	Agency Approval	Size (W" x D" x H")	Wt. (lbs.)	1	10
138798	Mid tower w/ 250W AT power supply	UL, CSA, CE	8.5 x 17.8 x 17.3	22.5	$79.95	$71.95
138801	Full tower w/ 300W AT power supply	UL, CSA, TUV	7.5 x 17.3 x 24.3	33.3	99.95	89.95
140038	Mid tower w/ 250W ATX power supply	UL, CSA, CE	8.6 x 17.8 x 17.3	32.1	89.95	80.95
153066	Mid tower w/ 300W ATX power supply	UL, CSA, CE	8.6 x 17.8 x 17.3	32.1	109.95	99.95

SCSI-I External Subsystem Enclosures
For Multiple HDs, Network CD-Servers, RAIDs

- Zinc plated metal body with streamlined plastic front panel
- Internal SCSI cables with ID address selectors
- Switching power supply • UL/CSA/TUV approval
- High quality internal SCSI cables
- **SCSI-II & SCSI-III versions can be special ordered**
- One-year warranty

129761: 5.25" Full Height or 2-Half Height Bays
- Two SCSI-ID address selector • RCA jack

129779: 5.25" 4-Half Height Bays




P/N 129761 shown with removable rack (not included – see below)

129779 129761

Part No.	Description	Power	Size (W" x D" x H")	Wt. (lbs.)	1	10
129761	SCSI-I full height or 2 half height bays	80W	7.1 x 11.3 x 6.5	8.3	$89.95	$80.95
129779	SCSI-I 2 full height or 4 half height bays	200W	7.0 x 14.1 x 10.3	15.0	119.95	107.95

External SCSI-I Dual Drive Enclosure
- 50W UL/CSA/TUV approved power supply
- Supports two half-height 5.25" or one full-height SCSI devices
- For hard, tape and optical drives



Part No.	Size (L" x W" x H")	Wt. (lbs.)	Price
125031	11.4 x 9.0 x 4.3	7.5	$79.95

JAMECO External CD-ROM Cases
- SCSI-I or IDE interface
- Streamlined appearance
- Metal body with plastic front panel • RCA jack
- SCSI-ID address selector on SCSI model (for P/N 126391)
- 50 watt universal switching power supply
- Size: 6.5"W x 11.8"D x 2.0"H
- Weight: 3.8 lbs. • P/N 129710: One-year warranty

126391: Use cable (P/N 73162, pg 175) for connections


129710

Part No.	Description	1	10
126391	SCSI CD-ROM external case	$49.95	$44.95
129710	IDE CD-ROM external case	79.95	71.95

JAMECO AT Mini-Vertical Case
with 230 Watt Power Supply
- Fits baby AT motherboards
- Back panel with 7 expansion slots
- Power and hard disk LED indicators
- Power and reset switch
- Two exposed 3.5" and three exposed 5.25" drive bays
- 230 watt UL, CSA, FCC approved AT power supply
- Includes internal speaker, hardware and detachable power cord • Color: gray
- Size: 7.0"W x 17.2"D x 15.4"H • Weight: 14.7 lbs.



Part No.	Prod. No.	Description	1	10
172769	HTMH201MT	AT mini-vertical case	$39.95	$35.95

External SCSI-I Drive Enclosure
(Vertical Case)
- External SCSI-I enclosure for 3.5" devices • Built-in fan
- 1 internal 50-pin female connector; 2 external Centronics 50-pin female connectors
- Built-in 20 watt power supply (+5VDC @ 1.6A, +12VDC @ 1.0A)
- SCSI ID selector switch • Color: gray
- Power switch with LED indicator
- Size: 3.4"W x 8.1"D x 5.5"H • Weight: 2.4 lbs.
- *Sold in as-is condition*



Part No.	Description	1	10	50
169041	SCSI-I enclosure	$9.95	$8.95	$6.95

JAMECO SCSI Removable Rack
- Removable storage module for SCSI I type 3.5" hard drives
- 50-pin female internal connector
- 50-pin male shrouded header external connector
- (2) 4-pin male headers for SCSI addressing and drive indicator • Key lock for security
- 4-pin molex type power connector
- Built-in fan (12VDC @ 50mA)
- Includes mounting hardware
- Size: 5.8"W x 8.8"D x 1.6"H • Weight: 2.4 lbs.

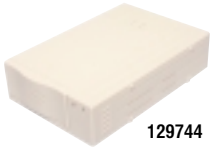


Part No.	Description	Price
134076	Removable rack	$49.95

Enclosures
For HD, DAT, MO, CD-ROM
- Removable drive bracket for easy installation
- Multiple front panels to fit different types of storage devices
- Drive space 1 x half height 5.25" or 3.5"
- Comes with necessary ID cables for all types of drives
- SCSI-ID address selector
- One-year warranty


129728

Perfect for Barracuda Drives!


129744

Compact Series
- SCSI-I interface
- Built-in 50 watt power supply (UL/CSA/TUV approved) and fan • Meets FCC requirements

P/N 129728 - 3.5" external case:
- Size: 6.5"W x 9.8"D x 2.4"H

External CD-ROM Cases – See below left

Elegant Series
2 Built-in fans to cool off high speed drives
- New generation of SCSI enclosures with 50 watts universal (90~264V) power supply

P/N 129744 - 3.5" external case:
- Size: 6.5"W x 9.7"D x 2.4"H

Part No.	Description	Wt. (lbs.)	1	10
129728	SCSI-I enclosure	3.5	$79.95	$69.95
129744	SCSI-I enclosure (fan)	3.6	89.95	79.95

IDE Removable 5.25" Rack Kit for 3.5" Hard Drive w/ Fan
- Supports DMA 66 hard drive
- Removable storage for 3.5" hard drives
- LED for power and hard drive activity
- Retaining lock mechanism
- (1) 12VDC @ 50mA fan
- CFM rating: 5.6 • Includes mounting hardware
- Size: 5.9"W x 8.7"D x 1.6"H • Weight: 1.3 lbs.



Part No.	Description	1	10	25
170608	Rack kit (IDE)	$29.95	$26.95	$23.95

Hot-Swappable IDE Removable Rack
This rack is hot-swappable through the keylock switch. Avoid down time while adding or removing drives! Lock and you power up; there is no power contact until you lock the rack.
- Air vents • Power LEDs • Keylock for security
- Weight: 1.4 lbs. • One-year warranty
- Size: 8.8"L x 5.8"W x 1.7"H
- ***SCSI-I racks can be special ordered***



Part No.	Description	1	10
134068	IDE hot swappable rack	$49.95	$44.95

JAMECO Removable HD Rack and Insert
- Removable storage for 3.5" IDE • Power LEDs
- Air-vents • Keylock for security • One-year warranty

P/N 129816: • ***SCSI racks and inserts can be special ordered***
P/N 135861: • Includes inner cable with IDE connector


129816

Part No.	Description	Size (W x D x H)	Weight (lbs.)	1	10	25
129816	Rack, IDE drives	5.8" x 8.5 x 1.5"	1.2	$27.95	$24.95	$22.49
135861	Inserts (IDE) for 129816	4.1" x 7.5 x 1.6"	0.8	19.95	17.95	13.95

JAMECO Mini Tower with 145 Watt ATX Power Supply



- (2) External 5.25" bays
- (1) Internal 3.5" bay
- (1) Internal floppy bay with face plate
- (4) back panel slots
- Front panel power switch
- LED indicators for hard drive, power, network connectivity
- 145 watt ATX type power supply
- Size: 7.5"W x 14.6"D x 14.0"H
- Weight: 17.1 lbs.

Part No.	Description	Price
181585	ATX mini-tower w/ power supply	$29.95

JAMECO ATX Mid-Tower Case



- (3) Exposed 5.25" bays
- (2) Exposed 3.5" bays
- (2) Concealed 3.5" bays
- (7) Back panel slots
- Power switch and reset switch on front panel
- LED indicators for power, hard drive, and mode
- Includes mounting hardware
- Size: 7.6"W x 17.0"D x 19.2"H
- Weight: 24.7 lbs.

Part No.	Description	1	10
181593	Mid-tower case	$39.95	$35.95

JAMECO DB25 Surge Suppressor

Serial



Protects your sensitive line driver/receivers against damaging power surges.

- In-line adapter to protect serial devices
- DB25 (female to male)
- Weight: 0.1 lbs.

Part No.	Description	1	10	100
72371	RS232 serial surge sup.	$3.95	$3.49	$2.49

JAMECO AC On/Off Timer



Deters theft! Turns lights on and off when you're not home!

- One on/off setting
- Input voltage: 125VAC/60Hz
- 10A contact rating • Color: beige
- Size: 2.6"W x 1.9"D x 3.8"H
- Weight: 0.4 lbs.

Part No.	Description	1	10	50
78553	Timer	$2.95	$2.49	$2.25

BELKIN Pocket Size Switch Box



Connects two computers to one printer. Compatible with both bidirectional and non-bidirectional printers.

- Connectors: 2 DB25 female input connectors and 1 DB25 female output connector
- Switchable setting for form feed and time-out
- Two LEDs to indicate link status
- Recommend P/N 100853 (pg 87) for power supply (9VDC @ 500mA with 2.1mm x 5.5mm center positive)
- Size: 3.3"L x 2.5"W x 0.9"H
- Weight: 0.4 lbs.

Part No.	Product No.	1	10	25
172662	2 to 1 printer switch	$12.95	$11.49	$9.95

JAMECO 2-Way & 4-Way Computer System Sharing Switch Boxes

DA15HD/5-pin DIN/DE9M



132249



134017

- Allows 2 or 4 users to share a system
- Each user may need a set of the following cables: P/N 66173, DA15HD M-M for monitor; P/N 114913, 5-pin DIN M-M for keyboard; P/N 132345, DE9 F-F for serial mouse (cables – see below, pg 173 & 174)
- Internal diodes maintain keyboard in powered state when switching between systems • Size: 7.5"L x 5.3"W x 2.8"H

Part No.	Description	Weight (lbs.)	1	10
132249	2-way switch box	1.6	$17.95	$15.95
134017	4-way switch box	2.3	24.95	22.49

JAMECO Pocket Sized Auto Computer Printer Switchers



Connect up to four computers to a printer. Operates on a first come, first-served basis.

- Connectors: two inputs and one output
- Interface: parallel DB25 female
- Two LEDs indicate link status
- Size: 4.0"L x 3.2"W x 1.0"H • Weight: 0.5 lbs.
- **P/N 94641:** One-year warranty

Part No.	Description	1	10	25
94641	2 to 1 printer switch	$13.95	$12.95	$11.95

3-Way Telephone Line Adapter



- Connect two or three devices (e.g. telephone, fax, modem) to one line
- Internal switch prevents interruptions; when one line is in use other lines cannot be used
- For standard telephone lines • Cord length: 6' 7.5"
- Size: 2.5"L x 1.8"W x 0.9"H • Weight: 0.3 lbs.

Part No.	Description	1	10
144848	3-way telephone adapter	$14.95	$13.49

AASTRA Phone Line Busy Indicator



Perfect for multiple users who share one dedicated phone line.

- Compatible with all network services • Strictly an indicator – will not interfere with emergency operation of phone line
- Size: 2.3"L x 1.3"W x 0.8"H • Weight: 0.1 lbs.

Part No.	Description	1	10	25
134261	Line indicator	$12.95	$11.49	$9.95

AASTRA Busy Line Switch



- Prevents accidental line interruptions when line is currently in use
- RJ11 6P2C connector cable 2'L
- One switch required for each extension phone on line
- Call display and call answer compatible
- Size: 2.1"L x 1.1"W x 0.8"H • Weight: 0.1 lbs.

Part No.	Description	1	10	25
120168	Busy switch	$12.95	$11.49	$9.95

Recommended Switch Box Cables

Part No.	Description	1	10
66173	6' DA15 male to male	$4.95	$4.49
132345	6' DE9 female to female	4.95	4.49
39538	10' DB25 male to male	5.95	5.49
40782	10' 36-pin centronics M to F	5.95	5.49
148515	10' extension cable DE9 male to female	6.95	6.25

JAMECO Low-Cost Switch Boxes



73322

Switch from printer to modem, share a printer between computers, or many other applications including video, fax/modem, networking and keyboard/monitor switching.

- Metal body • Color: beige
- One-year warranty

See pages 173 -174 for compatible cables

2-way Switch Box –DB25 (female)



20095



155512

- Typical application: printer

Part No.	Size (L x W x H)	Weight	1	10
20095	6.0" x 5.8" x 2.3"	1.3 lbs.	$8.95	$7.95
155512	7.2" x 4.9" x 2.5"	2.3 lbs.	4.95	3.95

4-way Switch Box – DB25 (female)



- Typical application: printer

Part No.	Size (L x W x H)	Weight	1	10
20124	6.0" x 4.0" x 2.4"	1.5 lbs.	$14.95	$13.49

2-way Switch Box – DA15HD/5-pin DIN (female)



- For two computer systems requiring one keyboard and one monitor – diodes maintain keyboard in powered state

Part No.	Size (L x W x H)	Weight	1	10
114155	6.0" x 4.0" x 2.3"	1.3 lbs.	$14.95	$13.49

2-way Switch Box – DA15HD/5-pin DIN (female)



- For single computer system requiring use of two keyboards and two monitors

Part No.	Size (L x W x H)	Weight	1	10
114163	6.0" x 4.0" x 2.3"	1.3 lbs.	$11.95	$9.95

2-way Switch Box – HDD15 6-pin mini DIN (female)



- Typical application: monitor/keyboard

Part No.	Size (L x W x H)	Weight	1	10
79177	6.0" x 4.5" x 2.6"	1.3 lbs.	$14.95	$13.49

2-way Switch Box – DE9 (female)



- Typical application: serial or TTL monitor

Part No.	Size (L x W x H)	Weight	1	10
79126	6.0" x 4.8" x 2.5"	1.2 lbs.	$9.95	$8.95

2-way Switch Box – RJ11 6P6C (female)



- Typical application: fax/ modem or telephone switch

Part No.	Size (L x W x H)	Weight	1	10
79142	6.0" x 4.8" x 2.5"	1.2 lbs.	$9.95	$8.95

2-way – (2) DB25 (female), (1) 36-pin Centronics (female)



- Typical application: printer

Part No.	Size (L x W x H)	Weight	1	10
73322	6.0" x 5.3" x 2.0"	1.4 lbs.	$11.95	$9.95

2-way Switch Box – 36-pin Centronics (female)



- Typical application: printer

Part No.	Size (L x W x H)	Weight	Price
20132	6.0" x 5.8" x 2.3"	1.4 lbs.	$4.95

ATEN Pocket Sized Auto Computer Printer Switchers



177421



177404

- Non-powered
- Compact size
- Easy to install
- Auto form feed selectable
- Transparent to user
- Built-in powerful ASIC
- Size: 5.9"L x 3.0"W x 0.8"H
- Weight: 0.5 lbs.
- **P/N 177421:** bi-directional; 3.5" software included; (5) DB25 female connectors
- **P/N 177412:** (5) DB25 female connectors
- **P/N 177404:** (3) DB25 female connectors

Part No.	Description	1	10	25
177421	1 to 4 or 4 to 1	$14.95	$13.49	$11.95
177412	4 to 1	12.95	11.49	9.95
177404	2 to 1	9.95	8.95	7.95

JAMECO Printer Buffer and Switch Box



- Can copy files or print files from PC to auxiliary devices
- Switch selectable for computer, auxiliary, and printer
- LCD display indicator for buffer/printer ready or error
- (3) 36-pin Centronics female connectors
- 256 bytes expandable to 512 bytes
- Size: 10.9"L x 9.5"W x 2.4"H
- Weight: 3.7 lbs.

Part No.	Description	Price
180398	Printer buffer/switcher	$19.95

JAMECO 4-in-2-out Parallel Buffer



- 256K byte memory
- Dynamic buffer allocation
- Auto form feed/pause at file end (enable/diable)
- 2 stage daisy chain expandability
- Interface: 4 DB25 female input ports, 2 DB25 female output ports
- Configuration saved to EEPROM
- AC adapter and manual included
- Size: 10.5"L x 5.8"W x 1.3"H
- Weight: 3.9 lbs. • One-year warranty

Part No.	Description	Price
76937	4-in-2-out parallel buffer	$69.95

JAMECO Printer Buffer



- Auto data compression
- File copy function up to 255 copies
- Cable distance: 10 meters (33')
- Power up self-test function
- Power consumption: 9VDC @ 100mA (max.)
- Connectors: input connector – 36-pin female Centronics; output connector – 36-pin male Centronics
- Status indication LED: buffers status, copy begin/end, memory error • Memory size: 1MB
- Buffer speed: 45Kbytes/second compressed; 20Kbytes/sec uncompressed
- Includes 9VDC@200mA center positive with 3.5mm male plug
- Size: 2.5"L x 2.0"W x 0.8"Thick • Weight: 0.9 lbs.

Part No.	Description	1	10
180751	Printer buffer	$29.95	$26.95

JAMECO 2-Way Switch Box

36-pin Centronics Female



- Typical application: printer
- 2 to 1 (2 PCs to 1 printer) or 1 to 2 (1 PC to 2 printers)
- Cross over
- (3) 36-pin Centronics female connectors
- Size: 7.3"L x 5.1"W x 2.3"H • Weight: 2.3 lbs.

Part No.	Description	1	10
180128	Printer switch box	$9.95	$8.95

JAMECO 4-Way Switch Box

36-pin Centronics Female



- Typical application: printer
- 4 to 1 (4 printers to 1 PC) or 1 to 4 (1 printer to 4 PCs)
- (5) 36-pin Centronics female connectors
- Size: 7.4"L x 5.6"W x 2.4"H
- Weight: 2.7 lbs.

Part No.	Description	1	10
180101	Printer switch box	$9.95	$8.95

JAMECO 5-Way Switch Box

36-Pin Centronics Female



- Typical applications: printer
- 5 to 1 (5 PCs to 1 printer) or 1 to 5 (1 PC to 5 printers)
- (6) 36-pin Centronics female connectors
- Size: 10.0"L x 7.1"W x 2.9"H
- Weight: 5.3 lbs.

Part No.	Description	1	10
180187	Printer switch box	$19.95	$17.95

JAMECO 3-Way Switch Box

8-Pin Mini DIN



- Typical application: Macintosh®
- (2) 8-pin MINI DIN female connectors
- Size: 5.5"L x 5.0"W x 2.0"H
- Weight: 1.2 lbs.

Part No.	Description	1	10
79134	MAC switch box	$12.95	$11.49

JAMECO 3-Way Switch Box

DE9 Female



- Typical application: serial or TTL monitors
- (3) DE9 female connectors
- Size: 8.0"L x 6.1"W x 2.2"H
- Weight: 2.1 lbs.

Part No.	Description	1	10
180081	3-way switch box	$14.95	$13.49

JAMECO 4-Way Switch Box

8-Pin Mini DIN



- Typical application: printers for Apple (MAC)
- (4) 8-pin Mini DIN female connectors
- Size: 8.0"L x 5.1"W x 2.2"H
- Weight: 2.0 lbs.

Part No.	Description	1	10
180136	Printer (MAC) switch box	$9.95	$8.95

JAMECO 4-Way Switch Box

RJ11 6P6C Female



- Typical application: fax, modem, or telephone switch
- (4) RJ11 6P6C female connectors
- Size: 8.0"L x 6.0"W x 2.2"H
- Weight: 2.0 lbs.

Part No.	Description	1	10
180161	4-way RJ-11 switchbox	$14.95	$13.49

JAMECO 4-Way Switch Box

RJ45 8P8C Female



- Typical applications: network switchers
- (5) RJ45 8P8C female connectors
- Size: 8.0"L x 6.1"W x 2.2"H
- Weight: 2.0 lbs.

Part No.	Description	1	10
180099	4-way RJ45 switch box	$9.95	$8.95

JAMECO 4-Way Computer System

Sharing Switch Box



- Allows 4 users to share a system or 4 systems to one user
- Recommend the following cables: P/N 66173 (DA15HD male to male, pg 174); P/N 174908 (6-pin mini DIN male to male, pg 173)
- Connectors: (5) DA15HD female (for monitor); (5) 6-pin mini DIN female (for mouse); (5) 6-pin mini DIN female (for keyboard)
- No internal diode
- Size: 7.6"L x 5.0"W x 2.4"H • Weight: 2.2 lbs.

Part No.	Description	1	10
180144	4-way switch box	$14.95	$13.49

JAMECO 4-Way Computer System

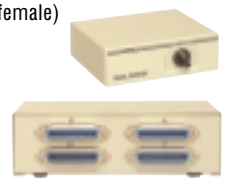
Sharing Switch Box



- Allows 4 users to share a system or 4 systems to one user
- Recommend the following cables: P/N 66173 (DA15HD male to male, pg 174); P/N 132345 (DE9 female to female, pg 174); P/N 25700 (DE9 male to female, pg 174); P/N 114981 (5-pin DIN male to female, pg 174)
- Connectors: (5) DA15HD female (for monitor); (5) DE9 female; (1) DE9 male; (5) 5-pin DIN male
- No internal diode
- Size: 7.6"L x 5.0"W x 2.4"H • Weight: 2.3 lbs.

Part No.	Description	1	10
180152	4-way switch box	$9.95	$8.95

JAMECO A/B/C Switch Box



- A/B/C 36-pin Centronics (female)
- All pins switched
- Fullshielding meets FCC requirements
- Gold plated all-female connector pins
- Long-life operation
- Metal construction
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 2.7 lbs. • One-year warranty

Part No.	Description	1	10
20141	4-in-2-out parallel buffer	$14.95	13.49

RS232 to RS485/422 Bi-directional Converters


117701

- Controlled by RTS signal
- DCE and DTE selectable
- Point to point and multidrop operations
- RS485: terminal block and RJ11 connections
- RS232: DB25 female connector
- Data rate: 1MB/second
- 4-wire full duplex or 2-wire half duplex
- Cable length: 4000' maximum
- Includes 9VDC, 300mA power adapter
- Weight: 0.9 lbs. • One-year warranty

European Version!

122956: features RS485SI optical isolation: 2000V
129218: features 220VAC input

Part No.	Description	1	10
117701	RS232 to 485/422 (110VAC)	$49.95	$44.95
122956	RS232 to 485/422 iso.(110VAC)	89.95	80.95
129218	RS232 to 485/422 (220VAC)	39.95	34.95

Reversible Auto Parallel Switcher

2 computers to 1 printer, or 1 computer to 2 printers



- Supports IEEE 1284 nibble mode
- Windows®/DOS compatible
- DB25 connectors
- Cable distance (max.): 20' (see page 149 for cables)
- Non-powered (9VDC @ 50mA power adapter optional)
- Includes software and manuals
- Manually switchable via software or switch
- First-come, first-served transfer • Timeout: 10 sec.
- One-year warranty
- Size: 4.0"L x 3.3"W • Weight: 0.4 lbs.

Part No.	Description	1	10
127221	1st come, 1st serve transfer	$29.95	$26.95

Short Haul Modem



- No external power required
- DCE/DTE selectable
- Xon-Xoff or hardware handshaking
- RS232 interface (DB25 female)
- Up to 38400 baud • One-year warranty
- Will communicate over 6.3 miles (max.) of cable
- Size: 3.0"L x 2.0"W x 1.0"H • Weight: 0.2 lbs.

Part No.	Description	1	10	25
116581	Short haul modem	$29.95	$26.95	$23.95

4-to-1 Parallel Printer Sharer



- Expandable to 1MB with RAM module (P/N 85569 – call for special order)
- Selectable automatic and manual modes
- Transparent to user • Non-powered (passive)
- Interfaces: 4 DB25 female input ports
  1 DB25 female output port
- AC adapter not included – recommend P/N 100853 (pg 87)
- Manual included • Size: 8.8"L x 6.3"W x 2.3"H
- One-year warranty • Weight: 3.7 lbs.

Part No.	Description	1	10
76945	Parallel switch box	$19.95	$16.95

110VAC Bi-Directional Non-Buffered Serial/Parallel Converter



- US input voltage versions available
- Bi-directional conversion of parallel and serial signals
- Serial interface: hardware handshake RTS/CTS, software handshake XON/XOFF; DCE/DTE selectable; parity: odd, even, or no parity; data bits: 7, 8
- Connectors: one DB25 female (serial) and one Centronics 36-pin male (parallel)
- Stop bits: 1 or 2 • Baud rate: 300 to 38,400 bps
- Includes AC adapter (9VAC @ 200mA) and manual
- Size: 4.0"L x 2.5"W x 1.0"H • Weight: 0.8 lbs.
- One-year warranty

Part No.	Description	1	10	25
116935	Bi-converter	$49.95	$44.95	$39.95

IEEE-488 to Centronics Converter Adapter



- Allows printing from an IEEE-488 device to a parallel printer
- Uses a 9VDC, 300mA wall transformer (included)
- IEEE-488 24-pin female input connector
- Centronics 36-pin male output connector
- DIP switch configurable to 31 IEEE-488 addresses
- Size: 4.0"L x 2.5"W x 1.0"H
- Weight: 0.9 lbs. • One-year warranty

Part No.	Description	1	10
122964	IEEE to Centronics converter	$49.95	$44.95

SVGA 4-Channel Splitter

Duplicate a video signal from one source to four monitors up to 210 feet.



- Suitable for SVGA, VGA and multisync monitors
- DA15 female connectors on box
- Slide switch for video signal gain control
- Includes power adapter 9VDC @ 130mA
- Daisy chainable • Size: 8.8"L x 6.0"W x 1.9"H
- One-year warranty • Weight: 3.6 lbs.

Part No.	Description	1	10
133866	4-channel monitor splitter	$79.95	$69.95

Monitor/Mouse/Keyboard Cable


141284

- 6' DBHD 15-pin male/female (monitor), 5-pin DIN male/female (keyboard), DE9-pin male/female (mouse) cable
- 32' DBHD 15-pin male/female (monitor), 5-pin DIN male/female (keyboard), DE9-pin male/female (mouse) cable

Part No.	Description	Wt. (lbs.)	1	10
141284	6' cable	1.6	$22.95	$19.95
141276	32' cable	4.8	49.95	44.95

Information at Your Fingertips

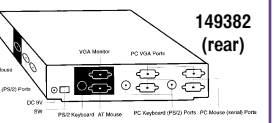
Log on to our web site for specials, technical tips and expanded product information

www.jameco.com

Two and Four PS/2 Computer System Switch Boxes

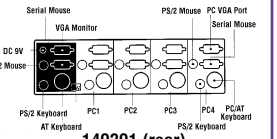
Allows one user to access two (P/N 149382) or four (P/N 149391) PS/2 computer systems


149382 (front)


149382 (rear)

- Selects any computer by hot keys and buttons
- Serial mouse and PS/2 mouse emulation and keyboard emulation for automatic PC boot up
- Three stage cascadable for accessing more computers (**note after two stages you may require a power adapter on each unit**)
- Supports SVGA, VGA and Multisync monitors
- Keyboard LED status recorded and restored while switching among computers
- Auto scan for monitoring PC periodically


149391 (front)



149391 (rear)

- Includes manual and power supply (9VDC @ 600mA)
- Size (149382): 9.0"L x 6.0"W x 2.0"H
  (149391): 10.0" x 7.0"W x 3.0"H
- One-year warranty

Part No.	Description	Wt. (lbs.)	1	5
149382	2 computer SB	4.0	$179.95	$159.95
149391	4 computer SB	7.1	229.95	209.95

SVGA 2-Channel Splitter

Duplicate a video signal from one source to 2 monitors up to 245 feet away.



- Suitable for SVGA, VGA, and multisync monitors
- (1) HDDB15-pin male connector from PC to box; (2) HDDB15-pin female connectors from box to monitor
- Led power indicator
- Includes 9VDC@500mA power adapter, and manual
- Size: 6.6"L 3.3"W x 1.1"H • Weight: 1.4lbs.

Part No.	Description	1	10
176866	2-channel monitor splitter	$49.95	$44.95

Printer Port Extender



- Non-powered
- Compact
- Transmitter has DB25 male connector and RJ11 (6P4C) jack
- Receiver has 36-pin Centronics male and RJ11 (6P4C) jack
- 4-wire telephone line
- 16KB/sec transfer rate
- 2000' transmission distance (610 meters)
- Includes 35ft. RJ11 cable • Weight: 0.7 lbs.
- Size: (transmitter) 3.0"L x 1.9"W x 0.9"H
- Size: (receiver) 2.6"L x 2.5"W x 0.8"H

Part No.	Description	1	10
180911	Parallel port extender	$39.95	$34.95

JAMECO® PCI Ethernet Cards

10Mbps and 10/100Mbps



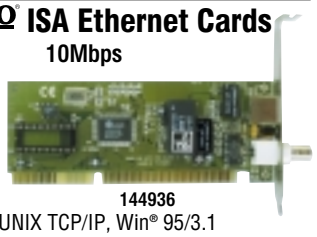
144928

- LED indicators for diagnostics
- Supports Novell NetWare, Windows® NT, LAN, UNIX Manager, TCP/IP, Win® 95/3.1
- FCC class approved
- Includes software driver (3.5" floppy)
- Remote bootable socket
- 32-bit PCI Bus

Part No.	Description	Wt. (lbs.)	1	10
144928	UTP/BNC (10Mbps)	0.5	$19.95	$17.95
153402	UTP (10/100Mbps)	0.3	19.95	17.95

JAMECO® ISA Ethernet Cards

10Mbps



144936

- LED indicators for diagnostics
- Supports Novell NetWare, Windows® NT, LAN Manager, UNIX TCP/IP, Win® 95/3.1
- FCC class approved
- Includes software driver (3.5" floppy)

Part No.	Description	Wt. (lbs.)	1	10
133022	UTP	0.4	$14.95	$13.49
144936	UTP/BNC	0.5	19.95	17.95

JAMECO® PCMCIA Type II Combo BNC/UTP Ethernet Card

10Mbps



- 10BaseT/10Base2 adapter
- Supports Novell Netware® 3.x/4.x, Microsoft® LAN Manager, Windows® for Workgroups 3.11, Windows® 3.1 and Windows® NT 3.51, Windows® 95 and packet driver
- Includes BNC/UTP connector, manual & driver software (3.5" diskette)
- Weight: 0.8 lbs.
- One-year warranty

Part No.	Description	1	10
132581	PCMCIA network card	$69.95	$62.95

JAMECO® Ethernet Hubs

10Mbps

- Includes user manual and power supply

153891: 5-port

- Connectors: (5) RJ45 (TP); (1) uplink (TP cascade)
- Size: 5.4"L x 3.8"W x 1.1"H



153891

153904: 8-port

- Connectors: (8) RJ45 (TP); (1) uplink (TP cascade); (1) BNC
- Size: 7.8"L x 4.0"W x 1.2"H

Part No.	Description	Wt. (lbs.)	1	10
153891	10BaseT 5-port	1.4	$39.95	$35.95
153904	10Base2/T 8-port	1.7	49.95	44.95

JAMECO® Ethernet 10Base5 to 10BaseT Transceiver

10Mbps

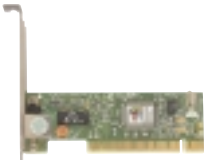


- For 10Mbps CSMA/CD LAN
- FCC class A approved
- LED indicators for power, link, receive and collision
- Size: 2.7"L x 1.6"W x 0.8"H
- Weight: 0.3 lbs.
- One-year warranty

Part No.	Product No.	Description	1	10
130315	JE5001	10BaseT trans.	$29.95	$26.95

PHOEBE PCI Ethernet Cards

10/100Mbps, Auto Detect



173606



173614

- 32-bit PCI bus mastering for high throughput and low CPU command
- Complies with IEEE 802.3 ethernet standards
- Full duplex and half duplex operation
- Auto negotiation functions
- Plug and play installation
- Auto set IRQs and I/O address
- LED indicators for link and activity status
- Includes 3.5" drivers and users manual

P/N 173606: UTP (10/100Mbps)

- Size: 4.8"L x 1.3"W
- Weight: 0.4 lbs.

P/N 173614: UTP (10/100Mbps) with WOL (wake on lan) function

- Size: 4.7"L x 3.0"W
- Weight: 0.7 lbs.

Part No.	Description	1	10
173606	UTP (10/100Mbps)	$16.95	$14.95
173614	UTP (10/100Mbps) with WOL	29.95	26.95

PHOEBE Ethernet HUBS

10/100Mbps, Dual Speed



173631

- IEEE 802.3 10BaseT and 100BaseTX compliant
- Auto sensing
- Built-in uplink switching port
- LED indicators for power and port activity
- Supports auto negotiation RJ45 ports
- Includes 12VDC@500mA AC adaptor, users manual, and mounting hardware
- Size: (P/N 173631) 7.4"L x 4.0"W x 1.2"H
- Size: (P/N 173622) 7.4"L x 4.0"W x 1.2"H

Part No.	Description	Weight	1	10
173631	5-port hub	1.8 lbs.	$99.95	$89.95
173622	8-port hub	1.9 lbs.	109.95	99.95

JAMECO® 3 – Port Firewire Hub

IEEE1394 Compatible



- 3 IEEE1394 male port
- Compliant with IEEE 1394 – 1395 and compatible with 1394A
- Perform function of 1394 cycle master
- Link up to 63 devices
- Support IEEE 1394 transfer rate of 100/200/400 Mbps
- Provide software control of interrupt events
- Power provider supports cable powered mode
- Supports Windows® 98/2000
- Includes 5'8" cable
- Plug and play
- Size: 3.8"L x 3.0"W x 1.2"H
- Weight: 0.7 lbs.

Part No.	Description	1	10	25
175732	3-port hub	$99.95	$89.95	$79.95

JAMECO® Token Ring RJ45 Adapter



- Use type A or B style data connector with RJ45 jack
- Easy connection to UTP cabling
- Determine cable length (flexibility)
- Dimensions: 2.5"L x 1.0"W
- Weight: 0.1 lbs.

Part No.	Description	1	10	100
125461	Token ring	$10.95	$9.95	$8.95

Fiber Optic Cable Assemblies



175337 175353

- Multimode
- 6.25 / 125 micron fiber size
- Color: orange
- Weight: 0.1 lbs.

Insertion Loss (dB) Table:

Part No.	A1	A2	B1	B2
175337	0.11	0.05	0.11	0.07
175345	0.13	0.11	0.07	0.04
175353	0.21	0.10	0.23	0.07
175361	0.08	0.08	0.12	0.12
175370	0.15	0.04	0.11	0.02
175388	0.09	0.10	0.16	0.05

Part No.	Description	Length	1	10	100
175337	ST-ST	1M (3'3")	$19.95	$17.95	$15.95
175345	ST-ST	2M (6'6")	22.95	19.95	17.95
175353	ST-SC	1M (3'3")	29.95	26.95	23.95
175361	ST-SC	2M (6'6")	32.95	29.95	26.95
175370	SC-SC	1M (3'3")	29.95	26.95	23.95
175388	SC-SC	2M (6'6")	32.95	29.95	26.95

7' Modular Data Network Cable

Category 5 (100MHz)



- 4 pair
- 7' cable
- 24 AWG (7 x 43) stranded
- Style 2 wiring (see page 168)
- 100MHz
- UTP
- 8P8C
- With boot
- Color: gray

Part No.	Description	1	10	100
175273	7' cable RJ45	$3.95	$3.49	$2.95

BOMAR EZ RJ45

Use Standard Modular Crimping Tool



Easy to install. Strip the wire, insert the wire into the plug and pull out the wire on the other side of the plug. This ensures correct conductor order and uniformity in crimping. No wire bar to deal with no wasted cable.

- 8P8C plug
- For solid or stranded wire

Part No.	Product No.	1	10	100
158115	RJ45 (8P8C)	$1.75	$1.49	$1.25

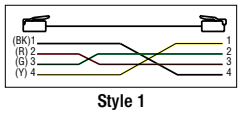
AINES Modular Breakout Adapters / Testers

RJ11 & RJ45 / Telephone (Style 1)



169164

This tool helps you determine whether the trouble is in the line or in the telephone. Unit has two RJ11/RJ45 jacks on both ends, one is connected to the wall jack or equipment being tested by the K plug cable that is part of the unit and the other jack provides a continuous servicewhile testing line conditions.



Style 1

- Includes K type cable; reverse wired (style 1); 7" cable
- Size: (unit) 3.3"L x 1.4"W x 0.6"H
- Weight: 0.2 lbs.

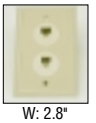
Part No.	Description	1	10
169172	RJ11 tester	$24.95	$22.49
169164	RJ45 tester	29.95	26.95

Surface Mount Wall Jacks & Plate

- Weight: .01 lbs.
- Color: beige

P = Number of positions
C = Number of contacts
W/E = Western Electric type no.

Fig. 1 (72311)



W: 2.8"
H: 4.5"

Fig. 2

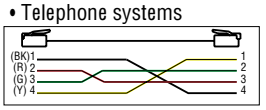


71651 W: 2.0" H: 2.2" D: 0.9"
181171 W: 2.6" H: 3.4" D: 1.1"

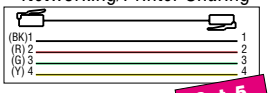
Part No.	Description	W/E	Fig.	1	10	100
72311	6P6C & 8P8C double wall jack plate	—	1	$1.95	$1.75	$1.29
103464	6P4C (SMT) adhesive jack RJ11	625A-4	2	1.39	1.19	.99
71984	6P6C (SMT) adhesive jack RJ11	625BS-6	2	1.39	1.19	.99
71651	8P8C (SMT) adhesive jack RJ45	635	2	1.59	1.35	1.19
181171	8P8C (SMT) (2) adhesive jack RJ45	—	2	1.59	1.35	1.19

JAMECO Couplers and Adapters

Style 1 – Reverse wiring
- Telephone systems



Style 2 – Straight wiring
- Networking/Printer Sharing



Cat 5 Coupler!

- Weight: .02 lbs.



Fig. 1
W: 1.5"
H: 0.9"
D: 0.7"
71757



Fig. 2
W: 1.1"
H: 0.8"
72207/
181091



Fig. 3
W: 1.7"
H: 1.0"
D: 0.9"
153023



Fig. 4
W: 1.0"
H: 1.0"
D: 2.0"
172814

Part No.	Description	Fig.	1	10	100
71757	6P6C modular coupler, Style 1	1	$.85	$.65	$.49
135087	6P6C modular coupler, Style 2	1	.85	.65	.49
118501	8P8C modular coupler, Style 1	1	1.15	.99	.69
135079	8P8C modular coupler, Style 2	1	1.15	.99	.89
172814	8P8C modular coupler, Style 1 (for Category 5)	4	6.95	6.25	5.59
153023	8P8C modular coupler, Style 2 (for Category 5)	3	6.95	6.25	5.59
75248	6P4C female "T" adapter. Provides 2 jacks from 1 cable. Female jack (6P4C), 2 female modular receptacles (6P4C), Style 1	2	.75	.69	.59
72207	6P4C male "T" adapter. Provides 2 jacks from 1 line. Male modular plug (6P4C), 2 female modular receptacles (6P4C), Style 2	2	.89	.79	.69
181091	6P6C male "T" adapter. Provides 2 jacks from 1 line. Male modular plug (6P6C), 2 female modular receptacles (6P6C), Style 2	2	.99	.89	.79

JAMECO Surface Mount RJ45 Jack Box

Category 5, Unshielded
- RJ45, unshielded
- 8P8C
- 100MHz
- Size: 2.6"L x 3.2"W x 1.2"H
- Weight: 0.2 lbs. • Color: beige



176073



176081

Part No.	Description	1	10	100
176073	Single jack	$6.95	$6.25	$5.59
176081	Dual jack	8.95	7.95	6.95

JAMECO Modular Plugs

- Weight: .01 lbs.

P = No. of positions
C = No. of contacts
W/E = Western Electric type number



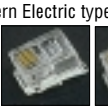
180646



116610



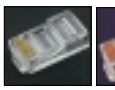
103491



79290



79273



79281



119343

✳ **Prepackaged: please order in increments of 10, 100 or 1000**

Part No.	Description	W/E	1	10	100	1000
103491	4P4C (handset)	616	✳	$.11	$.09	$.07
79290	6P4C (RJ11)	623	✳	.11	.08	.05
79273	6P6C (RJ11)	623	✳	.15	.11	.07
79281	8P8C (RJ45)	641	✳	.19	.15	.11
119343	8P8C (RJ45) unshielded (use w/ solid wire)		.39	.29	.19	.15
116610	8P8C (RJ45) shielded		.99	.85	.69	.55
116601	8P8C (RJ45) shielded (use w/ solid wire)		.99	.85	.69	.55
180646	10P10C (for stranded wire)		.99	.85	.69	.55

JAMECO Modular Jacks



115128



151765



105945



115836



124038

- PC mount
- Voltage rating: 150 volts AC max.
- Contact curr.rating: 1.5 amp max. @ 25˚C
- Durability: 750 mating cycles



115844



167290

P/N: 151765 • Side flange
P/N: 105945 & 167290 • Top flange
P/N: 182924 • Shielded



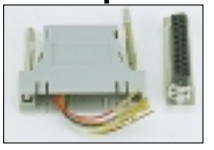
182924

Part No.	Description	W/E	1	10	100
115128	4P4C (handset)	—	$.69	$.49	$.35
151765	6P4C (RJ11) .82"L x .61"W x .59"H	AMP	.49	.39	.29
105945	6P4C (RJ11) .48"L x .48"W x .71"H	623	.59	.49	.39
115836	6P6C (RJ11) side flange	—	.65	.59	.45
124038	6P6C (RJ11) 6" leads	—	.95	.75	.55
115844	8P8C (RJ45) .50"L x .59"W x .56"H	641	.59	.49	.39
167290	8P8C (RJ45) .65"L x .63"W x .72"H	—	.49	.39	.25
182924	8P8C (RJ45) .84"L x .63"W x .54"H	—	.95	.75	.55

RS232 Modular Jack Adapters



66181



66237

Change your RS232 port to an RJ11 or RJ45 modular jack. This will allow you to use modular phone cable rather than RS232 cable, thus simplifying networking applications. Comes complete with all necessary wiring and hardware.

Part Number	Product Number	Description	1	10	100
66181	G9P6	DE9 M to RJ11(6P6C)	$1.95	$1.75	$1.49
66190	G9P8	DE9 M to RJ45(8P8C)	2.25	1.95	1.75
114737	G9S4	DE9 F to RJ11(6P4C)	1.75	1.49	1.25
66202	G9S6	DE9 F to RJ11(6P6C)	1.95	1.75	1.49
66211	G9S8	DE9 F to RJ45(8P8C)	2.25	1.95	1.75
66229	G25P6	DB25 M to RJ11(6P6C)	1.95	1.75	1.49
66237	G25P8	DB25 M to RJ45(8P8C)	2.25	1.95	1.75
114729	G25S4	DB25 F to RJ11(6P4C)	1.25	1.15	.99
66245	G25S6	DB25 F to RJ11(6P6C)	1.95	1.75	1.49
66253	G25S8	DB25 F to RJ45(8P8C)	2.25	1.95	1.75

Modular Telephone/Printer Sharing Cables (Gray)

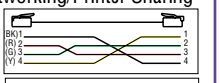
Low Cost Data/ Phone Cables

- RJ11 – 6P4C for telephone or network, 4 wire
- RJ11 – 6P6C for telephone or printer sharing
- RJ45 – 8P8C for telephone or modem-dialer use

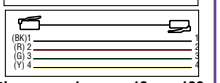
Style 1 – Reverse wiring for telephone systems
Style 2 – Straight wiring for networking/Printer Sharing



Style 1



Style 2



Part No.	Connector Style	Type	Length	1	10	100
115545	1	RJ11-6P4C	25ft.	$1.75	$1.49	$1.25
115553	2	RJ11-6P4C	7ft.	.99	.79	.65
115588	1	RJ11-6P6C	7ft.	1.09	.89	.75
115617	2	RJ11-6P6C	7ft.	1.49	1.25	.99
115676	2	RJ45-8P8C	7ft.	1.49	1.15	.99
115684	2	RJ45-8P8C	14ft.	2.49	2.25	1.95

Modular Data Network Cables Category 5 (100MHz)

See page 63 for Bulk Cable



115721 w/o Boot



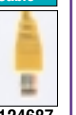
124804 w/ Boot



124741



124863



124687

- 4 pair • 24 AWG (7 x 43) stranded
- Style 2 wiring (see above) • 100MHz • UTP • 8P8C
- Color code for easy wire tracing • Prevent "snags"
- All cables have boots except gray • High-flexibility
- Achieve optimum system performance †No Boot

Part No.	Description	Color	1	10	100
115713	3ft. cable RJ45	Gray†	$2.95	$2.49	$1.95
115721	7ft. cable RJ45	Gray†	3.95	3.49	2.95
175273	7ft. cable RJ45	Gray	3.95	3.49	2.95
115730	15ft. cable RJ45	Gray†	4.95	4.49	3.95
115748	25ft. cable RJ45	Gray†	6.95	6.25	4.95
181059	50ft. cable RJ45	Gray	9.95	8.95	7.95
124724	3ft. cable RJ45	Red	2.95	2.25	1.95
124732	7ft. cable RJ45	Red	3.95	3.49	2.95
124741	15ft. cable RJ45	Red	4.95	4.49	3.95
170165	25ft. cable RJ45	Red	6.95	6.25	4.95
124847	3ft. cable RJ45	Black	2.95	2.25	1.95
124855	7ft. cable RJ45	Black	3.95	3.49	2.95
124863	15ft. cable RJ45	Black	4.95	4.25	3.95
170173	25ft. cable RJ45	Black	6.95	6.25	4.95
124804	3ft. cable RJ45	Blue	2.95	2.49	1.95
124812	7ft. cable RJ45	Blue	3.95	3.49	2.95
124821	15ft. cable RJ45	Blue	4.95	4.25	3.95
170190	25ft. cable RJ45	Blue	6.95	6.25	4.95
124687	3ft. cable RJ45	Yellow	2.95	2.49	1.95
124695	7ft. cable RJ45	Yellow	3.95	3.49	2.95
124708	15ft. cable RJ45	Yellow	4.95	4.49	3.95
170299	25ft. cable RJ45	Yellow	6.95	6.25	4.95

Modular Data Network Cable Category 5 (350MHz)



- 4 pair • UTP • 350MHz
- 24AWG (7 x 32) stranded • 8P8C
- Style 2 wiring (straight through) – see above
- With molded boot • High flexibilty • Color: gray
- Achieve optimum system performance

Part No.	Description	Wt. (lbs.)	1	10	100
168292	3ft. RJ45 cable	0.1	$3.95	$3.49	$2.95
168305	7ft. RJ45 cable	0.2	4.95	4.49	3.95
168313	15ft. RJ45 cable	0.4	5.95	5.35	4.79
168321	25ft. RJ45 cable	0.6	7.95	6.95	6.25

JAMECO Modular Data Network Cat 5 (Crossover) Cable



- Connect 2 PCs w/o a hub • 4-pair
- 24AWG (7 x 43) stranded • UTP
- Style 1 wiring (see left above) • 8P8C
- Strain relief RJ45 connectors

Part No.	Description	1	10	100
169261	10' cable RJ45, gray	$6.95	$6.25	$5.59

PHOEBE Modems

- PC/XT/AT and Pentium® compatibles
- Create voice and fax mail boxes with unique greetings
- Five fault locating tests • Includes phone cable
- Supports international CCITT and Bell standards
- Ultra reliable data transfer using V.42 bis/MNP5 error correction • FCC compliance • One-year warranty

ISA 56 Kbps Data/Fax Internal Modem

V.90 Dual Mode!

with Voice Mail and Speakerphone



- Reprogrammable Flash ROM for upgrade to future 56K standards
- Fax supports V.17, V.29, V.27 ter, V.21 ch 2
- Includes manuals, 70" phone cable, communication software, and CD-ROM software driver for Windows® 95/NT 4.0
- Hayes compatible
- 3.5" BitWare for Windows® disk
- Size: 7.1"L x 4.3"W • Weight: 1.5 lbs.

Part No.	Description	1	10
145023	ISA 56 Kbps int. modem	$59.95	$53.95

External 56K Fax/Modem

9-Pin & USB Serial



145031

- Data compatible to IUT-T V.34; V.32bis; V.32; V.22bis; V.22; V.21; Bell 212A and 103
- Fax compatible to ITU-T V.17; V.29; V.27ter; V.21
- Error checking compatible to V.42bis and MNP 2-4
- Data compression compatible to V.42 and MNP 5
- Enhanced AT command set, Fax class 1 and 2

145031: 9-Pin Serial

- Data compatible to IUT-T V.90 and K56 Flex
- Includes serial and phone cable, CD-ROM drivers and manual, and 12VAC @ 1A power supply
- Size: 5.9"L x 4.6"W x 1.3"H • Weight: 2.3 lbs.

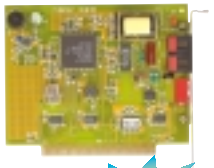
170376: USB-B Serial

New USB Interface

- Data compatible to Rockwell V. fast class, K56 Flex, and V.90Z
- Includes USB-A to USB-B cable and phone cable
- Size: 6.0"L x 4.6"W x 1.0"H • Weight: 1.4 lbs.

Part No.	Description	1	10
145031	Serial modem (Rockwell)	$69.95	$62.95
170376	USB-B modem (Rockwell)	69.95	62.95

Perfect DataFax™ Fax/Modem



- 9600 bps fax
- 2400 bps modem, with MNP-5 software
- True background send/receive
- COM1 - COM4 switch selectable
- Connects to your existing phone line for travel/home use
- Made in the USA
- Five-year warranty • Weight: 1.6 lbs.

While Supplies Last

Part No.	Description	1	10
17013	Internal fax/modem	$19.95	$17.95

PCI 56Kbps Internal Fax / Modem



- Min. System requirements: 300MHz Pentium® or higher compatible; Windows® 95/98/2000; 32MB of RAM; 10MB hard disk space
- Data compatible to V.90; V.34; V.32bis; V.32; V.22bis; V.22; V.21 Bell 212A & 103
- Data modem error correction compatible V.42; LAP-M, and MNP2-4 • No speakers
- Data modem compression compatible V.42bis & MNP5
- Data fax compatible V.17; C.29; V.27ter; V.21; and group III fax class I
- ACPI (advanced configuration and power interface), and APM (advanced power management) support
- Includes phone cable, manual, and drivers in CD-ROM • Size: 4.8"L x 2.4"W • Weight: 0.5 lbs.

Part No.	Description	1	10
171918	PCI 56Kbps internal modem	$24.95	$22.49

JAMECO PCI 56Kbps Voice/Fax/Modem



- Motorola 62412-51 chipset
- Data ITU-T V.90 and 56Flex compatible
- ITU-T V.34; V.32bis; V.32; V.22bis; V.22
- V.42bis and MNP-5 data compression compatible
- Full duplex speaker phone
- V.42 and MNP2-4 error correction compatible
- V.80 (H.324 video conferencing interface compatible
- V.17 (14400bps FAX) • Voice/audio mode
- Includes manual, cable and drivers on CD-ROM
- Size: 4.7"L x 2.8"W • Weight: 0.6 lbs.

Part No.	Description	1	10
172881	PCI 56Kbps Modem	$39.95	$35.95

2400 bps External Modem



- PC/XT/AT and compatible computers
- Quicklink II and Procomm Plus compatible
- 2400 bps (2400/1200/300)
- Hayes smartmodem compatible
- Bell 103/212A, CCITT v.22/v.22bis
- Auto dial and auto answer
- Full/half duplex • 90-day warranty
- Size: 9.5"L x 5.5"W x 1.5"H • Weight: 3.5 lbs.

While Supplies Last

Part No.	Description	Price
122884	2400 baud external modem	$24.95

9600 bps Fax/2400 bps Modem



- 9600 bps fax/2400 bps modem
- Easy to use menu-driven fax and data communications software
- Supports international CCITT and Bell standards
- Auto-install utility and external COM1 - COM4 select
- Software supported V.42bis compression and MNP-5
- FCC Class B and Part 68 certified
- Weight: 1.2 lbs. • Five-year warranty

While Supplies Last

Part No.	Description	1
67598	Internal fax/modem	$39.95

US Robotics ISA 14.4Kbps Data / Fax Internal Modem



- System requirements: 486 or Pentium®; Win 3.xx / 95; 4MB of RAM
- Supports 14.4 down to 300bps of data
- Windows® 98 drivers compliant
- Compatible with ITU-T standards
- Includes phone cable
- Size: 5.2"L x 3.7"W • Weight: 0.3 lbs.

Part No.	Description	1	10
139871	14.4Kbps fax / modem	$17.95	$15.95

ZOOM ISA 33.6Kbps Internal Fax/Modem



- High speed 16550 UART with 16-byte bi-directional buffer for faster data throughput
- AT command set compatible
- True V.34 (ITU international standard) 28,800 bps technology
- Supports V.34 ITU standard and V.Fast Class
- V.17 protocol for 14.400bps fax capabiltity
- Group 3 fax, class 1 and class 2
- V.42bis and MNP 5 data compression
- Ability to manually force MNP5, V.42bis, V.42 or MNP4
- Auto negotiation of highest level of data compression and error correction
- Size: 4.6"L x 2.5"W
- Weight: 0.2 lbs.

Part No.	Description	1	10
181796	Internal 33.6 fax/modem	$29.95	$26.95

JDI Technologies Surge Plus Power/Modem Protector

Internet Users – Protect Your Modem!



- Maximum rating: 15A/125AC
- (1) power outlet
- Lifetime warranty
- (1) protected telephone RJ11 jack (6P4C)

Added Protection

- Size: 3.3"L x 2.2"W x 1.2"H • Weight: 0.2 lbs.

Part No.	Product No.	1	10	100
160901	700-1M	$6.95	$6.25	$4.95

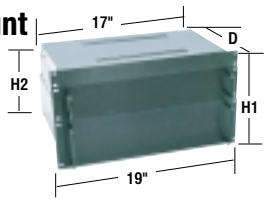
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- Order Tracking
- Technical Support
- Product Information and Photographs
- New and Special Product Offers

www.jameco.com

19" Rack Mount Enclosures



Perfect for equipment setup in home, studio or laboratory.

- All sides have ventilation holes
- Front and back panels are steel w/ aluminum, pre-punched face plates
- Top, bottom, sides durable 0.035" steel
- Front panel: 0.12"Thick
- Black front panel
- All enclosures have handles except P/N 132812
- Includes mounting screws

Part No.	Dimensions (Ins.) H1	H2	D
132812	1.73	1.25	9.75
132821	3.46	3.00	9.75
132839	3.46	2.88	11.75
132847	5.22	4.75	11.75
132855	5.22	4.75	13.50
132863	8.56	8.00	13.50

Part No.	Description	Wt. (lbs.)	1	10
132812	1U enclosure	6.2	$34.95	$29.95
132821	2U enclosure	7.9	39.95	35.95
132839	2U enclosure	9.1	44.95	39.95
132847	3U enclosure	10.6	49.95	44.95
132855	3U enclosure	11.8	59.95	53.95
132863	5U enclosure	15.4	79.95	69.95

19" Industrial Chassis with AT 300 Watt Power Supply

EIA RS-310C



- Use with 14-slot PC-BUS compatible backplane P/N 135061 (above right)
- Meets EIA RS-310 C standards
- Back panel with 12 open slots
- Supports one 3.5" and two 5.25" external accessible bays and two 3.5" internal bays
- Removable disk drive bay with shock resistant design
- Front 12VDC cooling fan with removable air filter screen and mesh • Waterproof front panel
- Includes mounting hardware • Color: gray
- Size: 16.8"L x 16.9"W x 7.0"H • Weight: 37 lbs.

Part No.	Description	1	5
146851	19" chassis w/ 300W PS.	$329.95	$299.95

JAMECO 19" Rack Mount Monitor Enclosure for 14" Monitor

Clear Glass Front Panel



- Vented enclosure
- Hinged door for accessing monitor controls
- Includes rubber adhesive feet and mounting screws
- Color: gray • Weight: 30 lbs.
- Size: 19.0"W x 15.1"D x 14.0"H

Part No.	Description	1	5
136021	Enclosure for 14" monitor ..	$269.95	$244.95

JAMECO 19" Rack Mount Drawer with Keyboard and Trackball



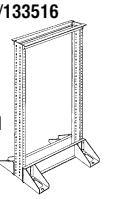
- Occupies a single unit (IU) rack space
- 5-pin DIN connector for keyboard and DE9 connector for trackball
- Includes wrist pads, module and software
- Color: gray
- Size: 19"W x 13"D x 2.8"H
- Weight: 18 lbs. • One-year warranty

Part No.	Description	1	5
150471	Rack mount KB drawer	$229.95	$209.95

Relay Panels & Rack



133276/133516



133751

19" Wide Panels:

- 10 gauge black aluminum
- One-year warranty

Rack:

- Black powder coat finish
- 10-32 threaded holes
- Used with 19" wide panels
- 16 gauge CRS base
- 1/8" aluminum side rails
- Size (at base): 19.8"W x 15.3"D x 84"H
- One-year warranty

Part No.	Description	Wt. (lbs.)	1	10
133276	Rack panel/1.75"H	0.4	$11.95	$10.75
133516	Rack panel/3.50"H	0.8	12.95	11.49
133751	Relay rack/84"H	21.8	169.95	149.95

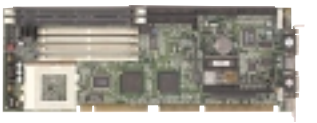
Rackmount Card Cage



- For 19" rackmounts
- 24 slots
- Weight: 6.3 lbs.
- Fits card size 6.5"L x 5.5"W
- Size: 6.5"L x 17.3"W x 6.1"D

Part No.	Description	1	10	25
172099	Rackmount card cage ...	$7.95	$6.95	$6.25

Embedded CPU Card For Intel Pentium Processors



- Socket 7-type
- Support Intel® Pentium® and MMX 75Mhz to 233MHz, AMD K5 and K6, Cyrix 686, and M2 CPU
- Intel 82430TX2.1 and Winbond I/O chipset
- 128KB award license bios
- (4) 72-pin SIMM socket or (2) 168-Pin DIMM socket expandable up to 128MB of memory
- On-board 512Kb pipelined burst synchronous cache
- Reserved socket for DiskOnChip from M-system supports up to 72MB flash memory disk
- On-board: (2) IDE ports supports up to 4 IDE devices; floppy disk port supports up to 2 floppy drives; (2) serial ports, (1) parallel port, (2) 5-pin header USB ports, (2) PS/2 (keyboard and mouse)
- Includes manual, cables, and hardware
- Size: 13.3"L x 4.9"W • Weight: 2.1 lbs.

Part No.	Description	1	10
174351	Embedded motherboard...	$269.95	$242.95

AXIOM Water Resistant 101-Key Keyboard



- IBM AT, PS/2 compatibles
- Membrane contact technology
- 5VDC @ 250mA
- Operating humidity: 10% to 95%rh
- Operating temp.: 0 to 55˚C • Color: gray
- Weight: 3.2 lbs. • One-year warranty
- Size: 15.5"L x 7.3"W x 1.8"H

Part No.	Description	Price
141866	Water resistant keyboard	$49.95

JAMECO 16-Bit ISA-PCI-PICMG Passive AT Backplane



- Ten 16-bit ISA slots, four PCI slots and two PICMG (48-bit) slots
- LEDs indicators for ±5V/±12V
- Compatible with P/N 146851 (left)
- Size: 12.5"L x 10.0"W • Weight: 1.9 lbs.

Part No.	Description	1	10
135061	ISA (10), PCI (4), PICMG BP	$99.95	$89.95

SHAXON Black Velcro Cable Tie



- Has buckle and mounting hole
- Weight: .03 lbs.

Part No.	Product No.	Length	1	10	50
149139	MD889BK	9"	$1.19	$1.09	$.99

JAMECO Cabinet Mount Plate for 19" Cabinet



- Can be used for setting up industrial chassis casing for servers, PC's or patch panels
- Made of industrial grade steel and aluminum
- Size: 19.0"W x 15.8"D x 3.5"H • Color: beige

Part No.	Description	1	10
149500	Cabinet mount plate.....	$34.95	$31.95

CCI World I PC Multilab 19.2 Kb Serial Port Device

31 Digital I/O & 8 Analog Channels



- Applications: education, engineering, robotics, remote monitoring, project development, diagnostics or virtually any application requiring I/O communications
- Operates from any host with an RS-232 port capable of 19,200 baud • Sink / source: 25mA
- Analog: 8 analog channels with 0-5 volt input
- I/O port configuration: port a - 6 digital I/O lines or 5 analog channels; port c - 6 digital I/O lines; port b & d - 8 digital I/O lines; port e - 3 digital I/O lines or 3 analog channels • Weight: 2.0 lbs.
- Includes power supply, cables and 3.5" software
- 31 digital I/O lines • Size: 4.4"L x 3.2"W x 1.0"H

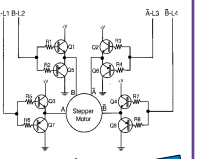
Part No.	Description	1	10
164072	Multilab serial device	$139.95	$125.95

RMV Digital/Analog DAC Board

12-Bit Stepper Motor Controller



Driver Schematic



- High speed serial port interface up to 230, 400 bauds
- 4 channels with precision signal conditioning – 100mV, 2.5V and 5.0V input
- 24 digital I/O (TTL compatible), 11 analog channels with 12 bit resolution
- PWM, period measurement & steppermotor functions
- Free 32 bit DLL, OCX and Labview driver for rapid system development
- One-year warranty • Includes manual
- Size: 6.0"L x 2.6"W • Weight: 0.7 lbs.

Assembled

Part No.	Description	1	10
109911	Digital/analog DAC board	$133.95	$119.95

Suggested Components for Above Circuit:

Part No.	Qty	Designator	Description	Price
29655	4	R1-R4	1KΩ,1/4W resistor (10 pc. min.)	$.15
30859	4	R5-R8	330Ω,1/4W resistor (10 pc. min.)	.15
25857	4	Q1-Q4	MJE 3055T transistor	.65
76970	4	D1-D4	1N4003 diode (10 pc. min.)	.04

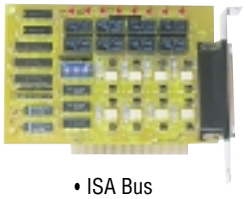
ADVANTECH PCMCIA Serial Card



- 16C550 UART with 16-byte FIFO buffer
- User selectable addresses and IRQ (including COM3 & COM4)
- Low power consumption
- Two DE9 connectors
- 50~115.2 Kbps baud rate
- Two full featured RS232 ports • One-year warranty
- Includes PC-ComLIB software • Weight: 0.4 lbs.

Part No.	Product No.	Description	1	10
127440	COMPAD32	PCMCIA card	$299.95	$279.95

ADVANTECH ISA Relay Actuator and Isolated D/I Card



- 8 SPDT electromechanical relay actuator outputs, 120VAC @ .5A or 30VDC @ 1A
- 8 opto-isolated digital inputs
- LED indicators to show activated relays • ISA Bus
- Jumper selectable isolated/non-isolated input signals
- On-board relay driver circuits • Includes manual
- 37-pin female D-sub connector • One-year warranty
- Includes matching male connector, ready to wire
- Easy to use and program • Weight: 1.0 lb.

Part No.	Product No.	Description	1	10
125655	PCL725	Relay & D/I card	$199.95	$179.95

ADVANTECH ISA Dual-Port RS422/485 Card



This new upgraded card offers the 16C550 UART that buffers data into 16-byte packets drastically reducing CPU load and increasing efficiency at up to 115 Kbps.

- 2 or 4 wire operation in RS422/485 modes
- Supports Tx, Rx, RTS and CTS signals
- IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- I/O addressing from 200H to 3F8H
- Selectable as COM 1-4 • One-year warranty
- Utilizes on-board optical isolators to eliminate ground loops for reliability in harsh environment
- Includes PC-ComLIB software • Weight: 1.0 lb.

Part No.	Product No.	Description	1	10
136434	PCL745B	RS422/485 card	$199.95	$179.95

ADVANTECH ISA PC-MultiLab Card

The Perfect Solution for Your PC-Based Engineering I/O Needs… PC-Lab Cards



For programmable voltage output and measurement, transducer interfacing, waveform recording, contact closure monitoring and relay control.

- 8 A/D inputs with 12-bit resolution
- 32 digital I/O, TTL compatible (16 in, 16 out)
- ±5V A/D input range
- 20-point wiring terminal daughterboard
- 25KHz maximum A/D sampling rate
- One D/A output, double buffered
- Includes software utility CD-ROM w/ DOS drivers
- Weight: 2.5 lbs. • One-year warranty

Part No.	Product No.	Description	1	10
28290	PCL711S	PC-MultiLab card	$349.95	$319.95

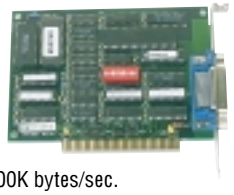
AXIOM ISA 48-Bit Digital I/O Card



- IBM PC/XT and higher compatible
- 48 TTL/DTL compatible digital I/O lines arranged into 8-bit ports
- Software programmable for inputs/outputs
- Interrupt options: jumper-selectable to IRQ 2, 3, 4, 5, 6 or 7
- Buffer circuit provides high sinking current capacity
- Added pull-up resistor: CMOS/DRY CONTACT compatible • Power requirement: +5VDC @ 1.6A max.
- Emulates 8255 PPI mode 0 • One-year warranty
- Size: 10.2"L x 3.9"W • Weight: 1.2 lbs.

Part No.	Description	1	10
136784	48-bit dig. I/O card	$99.95	$89.95

AXIOM ISA GPIB Interface Card



- On-board firmware ROM callable for user's application program
- Complete Listener/Talker/Controller (LTC) capability using the NEC µPD7210 GPIB TLC chip
- Data transfer rate over 300K bytes/sec.
- Half-sized board fits any I/O slot or laptop PC
- 6 interrupt levels • RF-shielded IEEE-488 receptable
- Selection of 3 DMA channels using host DMA controller
- Size: 5.0"L x 4.2"W • Wt.: 1.6 lbs. • One-year warranty

Part No.	Product No.	Description	1	10
136696	AX5488	GPIB card	$199.95	$179.95

ComputerBoards PCI GPIB 1MHz Cards



177121



164427

The PCI GPIB IEEE-488.2 interface converts any PCI bus personal computer into an instrumentation control and data acquisition system. Connect up to 14 instruments using standard IEEE-488 cables.

- IEEE-488.2 standard interface
- Industry standard 32-bit PCI bus
- 1024 word FIFO buffer
- Greater than 1MB/s transfer rates
- Plug and play – no switches or jumpers
- Win® 95, Win® NT, Win® 3.1 and DOS compatible

177121: • Size: 5.3"L x 4.2"W • Weight: 1.3 lbs.
164427: • Size: 3.4"L x 2.2"W • Weight: 2.4 lbs.

Part No.	Description	1	10
177121	PCI-GPIB card	$399.95	$359.95
164427	PCM-GPIB (PCMCIA bus)	299.95	269.95

ComputerBoards PCM-COM232 Card

PCMCIA Bus



PC card/PCMCIA based serial port card.

- Low cost single port RS232 interface
- Uses 16550 UART
- 5, 6, 7 or 8 data bits
- Odd, even or no parity
- 115 KBaud data rates
- Configured as COM1, COM2, COM3 or COM4
- PCMCIA type II compliant • Includes 1' cable
- Size: 2.9"L x 1.8"W • Weight: 0.2 lbs.

Part No.	Description	1	10
164451	PCM-COM232 card	$99.95	$89.95

ComputerBoards ISA 24-Bit Digital I/O Board



- IBM PC/XT/AT/ PS/30 or compatibles
- Supports a broad range of software
- TTL level digital I/O: 24-bits as (3) 8-bit ports
- Input current: ±10µA
- Logic low level: -0.5 to 0.8V (max.)
- Logic high level: 2 to 5V (max.)
- Output low sink current: 2.5mA @ 0.45V
- Output high source current: -2.5mA @ 2.4V
- Power consumption +5V: 400mA
- Size: 4.5"L x 3.9"W • Weight: 0.3 lbs.

Part No.	Description	1	10
151511	CIO-DIO24 I/O card	$69.95	$62.95

ComputerBoards IQ-TEMP Ambient Temperature Data Logger & PC Interface



168680

The IQ-TEMP is a small, easy to use temperature data logger. Use the simple IQ Wizard software to set up your data logging application. Ideal anywhere temperature control and monitoring is an issue.

168680: Specifications

- Battery: (1) 3.6V lithium AA, ten-year battery life under normal conditions • Memory: 21280 samples
- Sample rates: 0.125 sec to 24 hrs
- Temp sensor: IC, -40 to 85˚C range at ±0.5˚C
- Size: 3.1"L x 2.5"W x 1.0"H • Weight: 0.1 lbs.

168698: IQ-PCIK PC Interface Kit

- Includes serial cable, adapter and software

Part No.	Description	1	10
168680	IQ-Temp data logger	$99.95	$89.95
168698	IQWIZARD PC interface kit	99.95	89.95

ULTRA-X QuickPost PCI for PCI-Bus Systems



This is the first diagnostic card for monitoring Power-On-Self-Test results in systems using PCI-Bus architecture.

- Plugs into any PCI I/O slot
- Digital indicators for every POST code error
- LEDs for monitoring power (DC): +12, -12, +5, +3
- LEDs for clock and reset failure
- Comprehensive manual w/ error codes from all major BIOS manufacturers including AMI, AWARD, PHOENIX and more
- Weight: 0.7 lbs. • One-year warranty

Part No.	Description	1	10
135108	PCI-POST diagnostic card	$199.95	$179.95

Adobe Photoshop 4.0 LE Bundle

Mac/Windows® Compatible

This limited edition software gives you the power to create compelling images and the precision to prepare them for whatever media you choose.



SALE

Bundle contains:

- (1) Adobe Photoshop 4.0 LE
- (1) Jameco mouse pad – *P/N 121363 (7.0"L x 5.5"W)*
- (3) CD jewel cases – *May contain HP printer drivers*
- Weight: 1.1 lbs.

Part No.	Description	1	10
172611	Photoshop 4.0 LE bundle	$19.95	$17.95

SCSI PowerBook Adapter

- Adapts a 25-pin D-subminiature to a PowerBook SCSI interface
- Color: black
- Size: 2.3"L x 2.2"W x 0.9"H
- Weight: 0.1 lbs.



Part No.	Description	1	10
125268	SCSI PowerBook adapter	$14.95	$13.49

Mac to IBM Monitor Adapters

Allows use of Macintosh® computer with IBM monitor (DA-15 male to HD-15 female).



126439

126439:

- 10 position DIP-switch supports 6 kinds of signal modes and resolutions
- Size: 2.0"L x 1.5"W
- Weight: 0.2 lbs.
- One-year warranty



119538

119538:

- For Power Macintosh® 6100 and 7100 computers
- Size: 1.5"L x 1.6"W • Weight: 0.1 lbs.

Part No.	Description	1	10
126439	Mac to IBM adapter	$8.95	$7.95
119538	PPC 6100/7100 to IBM adapter	5.95	4.95

Replacement Batteries

126754: Lithium half AA

- Voltage: 3.6V (Tadiran)
- Amps: .85Ah
- Diameter: .579"

150965: Alkaline pack w/ connector (Ray-O-Vac)

- Voltage: 4.5V • Amps: 600mAh



126754



150965

Part No.	Description	1	10	25	100
126754★	Lithium half AA	$6.95	$5.95	$5.49	$4.75
150965	Alkaline pack	8.95	7.95	6.95	5.49

QTRONIX® 22-Key Mac® Keypad

- Fully compatible with Macintosh® power book computers and other computers
- Numeric and function keys
- Tactile click sound and touch feeling
- Auto repeat function
- Two key roll over
- 10 million cycles per switch
- Size: 6.2"L x 4.2"W x 1.3"H • Weight: 0.8 lbs.



Part No.	Description	1	10
176823	Scorpius 22ADB	$34.95	$31.49

JAMECO® 60 Watt Switching Power Supply for Apple® II, II+ and IIe

- 60 watts • Fully regulated output • 110V/220V switchable
- +5V @ 5A, +12V @ 2.5A, -5V @ 0.5A, -12V @ 0.5A
- Apple® type plug-in power cord included
- Can drive four floppy disk drives and up to eight expansion cards • Fits inside the Apple® II, II+ and IIe
- Short circuit and overload protection
- Same physical size as original power supplies
- Size: 9.5"L x 3.6"W x 2.2"H • Weight: 2.5 lbs.
- Data included • One-year warranty



Part No.	Product No.	Description	1	10	25
22269	KHP4007	60W switching power supply	$39.95	$35.95	$32.49

macally Single Button Mouse

- 275 CPI resolution
- Soft, quick responsive mechanical click button
- ADB connector
- 29" cord • Weight: 0.5 lbs.
- Size: 4.8"L x 2.4"W x 1.2"H
- One-year warranty



Part No.	Description	1	10	25
150480	Single button	$19.95	$17.95	$15.95

macally 105-Key Keyboard



- Enhanced 105-key layout • ADB compatible
- Special soft key; positive response
- Size: 18.8"L x 7.8"W x 2.1"H • Cable included
- Weight: 3.6 lbs. • One-year warranty

Part No.	Description	1	10
151669	Macintosh® keyboard	$44.95	$39.95

Mac Cable for Hayes Compatible Modem

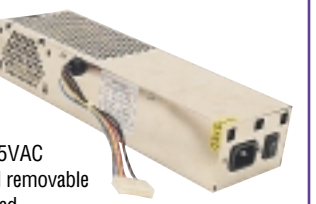
- Connect Mac & Performa Series to Hayes compatible modem • Length: 6'
- DB25M to mini DIN8M • Weight: 0.3 lbs.



Part No.	Description	1	10	50
169236	Modem cable	$4.95	$4.49	$3.95

JAMECO® 60 Watt Switching Power Supply for Apple® IIGS

- 60 watts
- Fully regulated +5VDC @ 6A, +12VDC @ 2A, -5VDC @ 0.5A, -12VDC @ 0.5A
- Input voltage: 115VAC
- 5.5' three pronged removable power cord included



- 4 mounting holes • Data included
- 6" output cable with 7-pin Molex connector
- Size: 11.3"L x 3.4"W x 2.2"H
- Weight: 2.3 lbs. • One-year warranty

Part No.	Description	1	10	25
85518	60W power supply	$44.95	$39.95	$35.95

Panasonic & SONY Floppy Disk Drives

- 1.44MB capacity

154608: Panasonic

- Compatible with late model Quadras, all Power PCs and G3s
- Size: 5.7"L x 4.0"W x 1.0"H



154608

154579: Sony

- Compatible with Mac-II series, SE30 and early Quadras (700, 900, 950)
- Size: 5.8"L x 3.8"W x 1.0"H

Part No.	Description	Wt. (lbs.)	1	10	25
154608	Manual insert	1.2	$49.95	$44.95	$39.95
154579	Auto insert	1.7	49.95	48.95	47.95

Apple Macintosh® Cable and Adapter Guide



130024



73162



10604



10591



177519

SCSI Cables

Part No.	Description	1	10	50
73162	6' Centronics 50M-50M	$7.95	$6.95	$5.95
72848	1.5' 50-pin SCSI socket ribbon cable	3.49	2.95	2.49
129971	SCSI-I terminator	2.95	2.49	1.95

Printer Cables

Part No.	Description	1	10	50
177519	3' mini DIN8M	$3.95	$3.49	$2.95
10604	6' mini DIN8M	4.95	4.49	3.95
130024	10' mini DIN8M	4.95	4.49	3.95
10591	6' DB25M to mini DIN8M	3.95	3.49	2.95

Network Cable Kit / Gender Changer

Part No.	Description	Price
73269	8-pin mini DIN RJ11PhoneNet kit	$3.95
181235	8-pin mini DIN gender changer(F-F)	3.95

PowerBook SCSI Adapter

Part No.	Description	1	10
125268	DB25F to HDI-30M adapter	$14.95	$13.49

JAMECO® DB25-Pin Ribbon Cable Assembly



- Metal connector
- 300V rating • 105°C rating
- 28 AWG flat cable
- Pin 1 cable indicator
- Tin plated contacts
- Weight: 0.2 lbs.

Part No.	Description	1	10	100
12407	4' male to female	$3.95	$3.49	$2.95

JAMECO® Socket Connector to Socket Connector Ribbon Cables

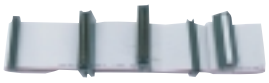


32715

- Socket to socket connection
- 300V rating
- 18" length
- 28 AWG gray flat cable
- Tin plated contacts • Weight: 0.1 lbs.

Part No.	Product No.	Contacts	1	10	100
32686	S40-18-S	40	$2.95	$2.49	$1.95
32715	S50-18-S	50	2.95	2.49	1.95

JAMECO® Disk Drive Cables



32918



72805

32918: Floppy Disk Drive Cable

- IBM PC/XT and higher compatible • Length: 23"
- Connects floppy drives to controller card • Wt.: 0.2 lbs.

72805: IDE Hard Drive Cable

- Includes two socket 40-pin headers for two IDE devices • Length: 18" • Weight: .01 lbs.

18665: MFM/RLL Hard Drive Cable

- For PC/XT/AT and compatibles • Length: 2'

179987: Hard Drive Cable Kit

- (1) 20" IDE cable (P/N 72805) and (1) 25" floppy cable (P/N 32918)

Part No.	Description	1	10	100
32918	For use w/ 1-2 3.5" and 5.25" drives	$3.95	$2.95	$2.49
72805	IDE cable	3.95	3.49	2.95
18665	20-pin data cable	2.95	2.49	1.95
179987	IDE/HD/FD cable kit	6.95	6.25	5.59

JAMECO® IDE Hard Drive Cable (ULTRA DMA 66)

Reduced Error Rate / Improved Speed



- For ULTRA DMA 66 type hard drives
- Includes (2) 40-pin sockets
- Length: 17"
- Weight.: 0.1 lbs.

Part No.	Product No.	1	10	100
175492	PFUDMAG2	$6.95	$6.25	$5.79

JAMECO® Internal Computer Cable Pack



- Standard computer back panel brackets
- Ribbon cable with header connector
- Bracket with DE9 male to 10 pin header and DB25 male to 10 pin header; bracket with DB25 female with 26 pin header; 20" long IDE cable for two hard drives; 20" floppy drive cable • Weight: 0.5 lbs.

Part No.	Description	1	10	25
180005	Internal cable pack	$7.95	$6.95	$6.25

JAMECO® RCA Cables



139037



177527



106374

- Video/audio applications
- Color: black; P/N 29348: black w/ yellow shroud
- **139037:** 1/8" male stereo plug to (2) RCA male (red & white)
- Weight: 0.1 lbs. • See page 59 for jacks

Part No.	Description	1	10	100
139037	5' male to male "Y"	$2.95	$2.49	$1.95
177527	6' (3) male to (3) male	3.95	3.49	2.95
106374	6' male to male	1.25	.99	.69
29348	10' male to male	1.39	1.19	.79

JAMECO® RGB Video Cables



73648

- 5 BNC to DA15-pin male high density
- Pin 1 red, pin 2 green, pin 3 blue, pin 14 (white/black) vertical, pin 13 (gray) horizontal
- 75Ω coaxial cable • Weight: 0.9 lbs.

Part No.	Description	1	10	25
73648	6' cable (black)	$19.95	$17.95	$15.95
118068	10' cable (black)	22.95	19.95	17.95

JAMECO® Switch Box Adapter Cables



174772

114913: • 5' gray 5-pin DIN M-M coiled cable for 114163/ 114155 switch boxes (pg 164)

177261: • 2' gray 6-pin mini DIN M-M non-coiled cable for 79177 switch box (pg 164)

112627: • 10' gray 6-pin mini DIN M-M non-coiled cable for 79177 switch box (pg 164)

174772: • 6' black 6-pin mini DIN M-M

174908: • 6' gray 6-pin mini DIN M-M

Part No.	Description	1	10	25
114913	5-pin DIN cable	$4.95	$4.49	$3.95
177261	6-pin mini DIN cable	2.95	2.49	1.95
112627	6-pin mini DIN cable	5.95	5.35	4.75
174772	6-pin mini DIN cable	4.95	4.49	3.95
174908	6-pin mini DIN cable	4.95	4.49	3.95

JAMECO® Ethernet Drop Cables



180734

- DA15 connectors with metal hoods
- IEEE802.3 transceiver compliant

180734: • Length: 2' • Wt.: 0.6 lbs.

181340: • Length: 10' • Wt.: 1.4 lbs.

Part No.	Description	1	10
180734	2' DA15 M-F	$9.95	$8.95
181340	10' DA15 M-F	49.95	44.95

JAMECO® Apple Macintosh Printer / Adapters / Extension Cables



181420 181391 181382 181374 180566 180591

Extension Cables

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
181420	4-pin mini DIN male to female	6	0.2	$3.95	$3.49	$2.95
180494	4-pin mini DIN male to female	10	0.3	4.95	4.49	3.95
181391	8-pin mini DIN male to female	6	0.3	3.95	3.49	2.95
180486	8-pin mini DIN male to female	10	0.4	4.95	4.49	3.95
180460	8-pin mini DIN male to female	25	0.9	5.95	5.49	4.95

Printer Cable

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
181382	8-pin mini DIN male to DE9 female	6	0.3	$5.95	$5.49	$4.95

Adapter Cables

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
180558	8-pin mini DIN male to DB25 male	3	0.2	$4.95	$4.49	$3.95
181374	8-pin mini DIN male to DB25 male	6	0.3	5.95	5.49	4.95
180566	8-pin DIN male to DB25 male	1.5	0.2	4.95	4.49	3.95
180591	8-pin DIN rt. angle male to DB25 male	2	0.2	4.95	4.49	3.95

JAMECO® Serial Null Modem Cables



180697 180582 180742 180726 181366



181260

- Molded type connectors • Color: gray
- **181403 / 180697 Pin outs:** 1–7 & 8; 2-3; 3-2; 4-6; 5-5; 6-4; 7 & 8-1
- **181438 Pin outs:** 2-2; 3-3; 5 & 6-4; 7-5; 8-7; 20-6 & 8 (Serial Printer Null Modem)
- **180582 Pin outs:** 2-2; 3-3; 4-5 & 6; 5-7; 6 & 8-20; 7-8; (Serial Printer Null Modem)
- **180742 Pin outs:** 1-4 & 5; 2-2; 3-3; 4-6; 5-7; 6-20; 7-8; 8-8
- **180726/180700/181366/181243/181251/181260 Pin outs:** 2-3; 3-2; 4 & 5-8; 6-20; 7-7; 8-4 & 5; 20-6

Part No.	Description	Length (ft.)	Weight (lbs.)	1	10	50
181403	DE9 female to DE9 female	6	0.3	$4.95	$4.49	$3.95
180697	DE9 female to DE9 female	10	0.4	5.95	5.49	4.95
181438	DB25 male to DE9 female	6	0.9	9.95	8.95	7.95
180582	DB25 male to DE9 female	10	0.4	5.95	5.49	4.95
180742	DB25 female to DE9 female	10	0.5	5.95	5.49	4.95
180726	DB25 male to DB25 male	6	0.5	4.95	4.49	3.95
180700	DB25 male to DB25 male	10	0.6	5.95	5.49	4.95
181366	DB25 male to DB25 female	6	0.5	4.95	4.49	3.95
181243	DB25 male to DB25 female	10	0.6	5.95	5.49	4.95
181251	DB25 male to DB25 female	25	1.2	7.95	6.95	6.25
181260	DB25 female to DB25 female	10	0.6	5.95	5.49	4.95

JAMECO Parallel Printer Cables

- IBM PC/XT and higher compatibles
- Molded and fully shielded DB25-pin male and 36-pin Centronics male connectors
- **28741/164777:** DB25M to Centronics 36M right angle
- **180603:** For Amiga 100C printer
- **180718:** For API printer DB25M to 50-pin Centronics male connector


28716

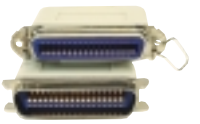

28741

Part No.	Description	Wt. (lbs.)	1	10
180718	6' straight cable	0.6	$3.49	$3.49
28716	6' straight cable	0.4	3.95	2.95
28741	6' right angle cable	0.5	4.95	4.49
58536	8' straight cable	0.9	4.49	3.95
123781	10' straight cable	0.6	4.95	4.49
180603	10' straight cable	0.9	4.95	4.49
164777	10' right angle cable	0.7	4.95	4.49
28708	15' straight cable	0.8	6.95	5.49
101899	25' straight cable	1.1	8.95	7.95

JAMECO Centronics 36-Pin Printer Extension Cables

25/36 Conductor

- Molded and fully shielded Centronics 36-pin male and female connectors
- Lengthens standard printer cables or for use with switch box applications
- **P/N 135028:** metal hood, black
- **P/N 180574:** metal housing • Weight: 1.0 lbs.


40782

Part No.	Description	No. of Conductors	1	10
180531	6' M-M	25	$2.49	$2.25
135028	8' M-M metal, blk	36	2.95	2.75
40791	10' M-M	25	3.95	3.49
180574	10' M-M metal	25	3.95	3.49
180515	6' M-F	25	2.49	2.25
180443	6' M-F	36	2.49	2.25
40782	10' M-F	36	5.95	5.49

JAMECO Serial Modem Cables

- Molded and fully shielded DB25-pin male and female connectors
- 9 pins wired straight through: pins 1-8 and 20 (metal shell)


26008

Part No.	Description	Wt. (lbs.)	1	10
53858	6' male to female	0.4	$3.95	$3.49
26008	10' male to male	0.5	4.95	4.49

JAMECO 9-Pin Serial Cables

- AT and compatibles
- DE9-pin serial ports which need to be converted to DB25-pin serial
- Molded DE9 female to DB25 male connectors


31721

Part No.	Description	Wt. (lbs.)	1	10	50
109583	1' serial	0.2	$3.49	$2.95	$2.49
31721	6' serial	0.3	4.95	4.49	3.95
155521	10' serial	0.5	5.95	5.49	3.95

JAMECO 9-Pin Test Cables

- Weight: 0.2 lbs.

154798: DE9 male to DB25 male (2')

- Pin outs: 2-2, 3-3, 5-7, 7-5, 8-4

162915: DE9 male to DE9 female (6')

- Pin outs: 1-3, 2-2, 4-5


162915

Part No.	Description	1	10	25
154798	DE9 male to DB25 male	$2.95	$2.49	$1.95
162915	DE9 male to DB9 female	3.95	3.49	2.49

JAMECO DB25-Pin Extension Cables

- Lengthens your standard serial cable or use for switch box applications
- All lines connected straight through
- Thumbscrews to secure cables
- **180451/175290:** Color: black


67256

Part No.	Description	Wt. (lbs.)	1	10	100
174001	3' M-M	0.6	$3.49	$2.95	$2.25
65787	6' M-M	0.5	4.95	4.49	3.95
39538	10' M-M	0.7	5.95	5.49	4.95
180451	10' M-M (blk)	1.1	5.95	5.49	4.95
179979	15' M-M	1.2	7.95	6.95	6.25
67070	25' M-M	1.4	9.95	8.95	7.95
180435	50' M-M	3.6	14.95	13.49	11.95
175329	1' M-F	0.3	2.95	2.49	1.95
164291	3' M-F	0.4	3.49	2.95	2.25
175290	3' M-F (blk)	0.8	3.49	2.95	2.25
163133	5' M-F	0.6	3.95	3.49	2.49
67256	6' M-F	0.5	4.95	4.49	3.95
39511	10' M-F	0.7	5.95	5.49	4.49
177279	15' M-F	1.0	7.95	6.95	6.25
101995	25' M-F	1.4	9.95	8.95	7.95
181201	50' M-F	3.2	14.95	13.49	11.95
180478	6' F-F	0.7	4.95	4.49	3.95
181331	10' F-F	0.9	5.95	5.49	4.49
181323	25' F-F	1.6	9.95	8.95	7.95

JAMECO Extension Cables

DA15 connectors

- Molded connectors
- Straight through
- Thumbscrews
- Color: gray • Weight: 0.5 lbs.


181286

Part No.	Description	Length	1	10	100
181286	DA15 M-M	6'	$4.95	$4.49	$3.95
181358	DA15 M-F	6'	4.95	4.49	3.95

JAMECO PS/2 Keyboard Adapter Cables

28003:

- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN

85500:

- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN connectors


28003

Part No.	Length	Color	Wt. (lbs.)	1	10	25
28003	7.3"	Beige	0.6	$3.95	$3.49	$2.95
85500	11.3"	Beige	0.8	4.95	4.49	3.95

JAMECO Keyboard Extension Cables

22234/114981/112045/169826:

- IBM PC/XT and higher compatibles • Color: beige
- 5-pin male DIN to 5-pin female DIN cable

28548/111053:

- 6-pin female mini DIN to 6-pin male mini DIN cable
- PS/2 computers • Color: beige


22234

Part No.	Description	Wt. (lbs.)	1	10
22234	PC/XT/AT 5' coiled	0.2	$3.49	$2.95
114981	PC/XT/AT 6' non-coiled	0.2	3.95	3.49
112045	PC/XT/AT 10' non-coiled	0.3	4.95	4.49
169826	PC/XT/AT 10' coiled	0.3	3.95	3.75
28548	PS/2 6' non-coiled	0.2	3.95	3.49
111053	PS/2 10' non-coiled	0.3	4.95	4.49

JAMECO VGA Monitor Extension Cables

- IBM PC/XT and higher compatibles
- Extends VGA monitor cable; DA15 male to DA15 female
- P/N 66165/148531 – thumbscrews on each end

134041 – DA15 female with hex nuts and DA15 male with thumbscrews


134041


66165

Part No.	Description	Wt. (lbs.)	1	10	25
134041	6' screws/hex nuts	0.4	$4.95	$4.49	$3.95
66165	6' thumbscrews	0.3	4.95	4.49	3.95
148531	10' thumbscrews	0.5	6.95	6.25	5.59

JAMECO VGA Monitor Cables

- IBM PC/XT and higher compatibles
- Connects video card to VGA monitor
- DA15 male to DA15 male


66173

Part No.	Description	Wt. (lbs.)	1	10	25
66173	6' monitor cable	0.3	$4.95	$4.49	$3.95
148523	10' monitor cable	0.5	6.95	6.25	5.59

JAMECO Standard Monitor Cable

- IBM PC/XT and higher compatibles
- For monochrome, RGB, EGA and multisync monitors
- Connects video card to monitor
- DE9 male to DE9 male
- Length: 6'



Part No.	Description	Wt. (lbs.)	1	10	25
66157	6' standard	0.3	$3.95	$3.49	$2.95

JAMECO Monitor Power Adapter Cables

- IBM PC/XT and higher compatibles
- Allows connection of monitors directly to standard IBM type power supplies
- Monitor turns on/off automatically via system power switch
- See page 80 for more power adapter cables



Part No.	Description	Wt. (lbs.)	1	10	100
177447	1' monitor cable	0.2	$1.95	$1.75	$1.49
26382	6' monitor cable	0.4	3.95	3.49	2.75
177455	10' monitor cable	0.5	5.95	5.49	4.75

JAMECO DE9 Extension Cables


132345

25700



132345:

- DE9 female to DE9 female cable with thumbscrew

25700/148515:

- DE9 male to DE9 female cable with thumbscrew

181665:

- DE9 male to DE9 male cable

Part No.	Description	Wt. (lbs.)	1	10	25
132345	6' F-F	0.3	$4.95	$4.49	$3.95
25700	6' M-F	0.3	4.95	4.49	3.95
148515	10' M-F	0.4	6.95	6.25	5.49
181665	10' M-M	0.5	6.95	6.25	5.49

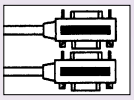
JAMECO IEEE-488 Cables

A variety of cable lengths are offered to ensure that the IEEE system requirements are met (20 meters maximum length with a maximum of 15 devices).



73154

- Color: gray
- 24-pin IEEE-488 connectors



GPIB/GPIB

These cables are standard IEEE-488 cables having stackable GPIB connectors on both ends.

Part No.	Description	Wt. (lbs.)	1	10	25
73154	1 meter	0.8	$27.95	$24.95	$22.49
115781	2 meter	1.2	31.95	28.95	25.95
115801	4 meter	2.0	34.95	31.49	27.95

JAMECO IEEE-1284 Compliant Enhanced Parallel & Serial Cables

The IEEE-1284 is the newest standard in high speed printing. Compatible with bi-directional communication data flow resulting in speeds up to 10 times faster than conventional applications.



130067

- Double shielded with 28 AWG stranded twisted pair inner conductors • Molded shells, PVC plastic
- Color: beige (P/N 130067/168233); black (P/N 161630); grey (P/N 172304) • Weight: 0.6 lbs.

Part No.	Description	1	10
130067	6' DB25 M to cent. parallel 36M	$9.95	$7.95
172304	6' DB25 M to micro cent. 36M	7.95	5.95
168233	6' DB25 M-F parallel cable	7.95	5.95
161630	10' DB25 M-M serial cable	7.95	5.95

JAMECO IEEE-1394 Firewire Cables

Connect the latest USB and Firewire peripherals with our quality cables.



175821



175839



175847

- IEEE-1394 compliant
- UL approved
- Molded connectors
- Length: 6'
- Weight: 0.3 lbs.

Part No.	Description	1	10	25
175821	4-pin M – M	$14.95	$13.49	$11.95
175839	6-pin M – 4-pin M	14.95	13.49	11.95
175847	6-pin M – M	17.95	15.95	14.49

JAMECO Printer Cable

DB25 to 50-pin Centronics



- DB25 Male to 50-pin Centronics male
- Metal hood enclosed connectors
- Color: gray
- Length: 6 ft. • Wt.: 0.6 lbs.

Part No.	Description	1	10
180718	DB25 to 50-pin Centronics	$3.95	$3.49

JAMECO SCSI-II Terminator



- Terminator for high density 50-pin connector
- Single-ended passive 50 position
- 150Ω resistance
- Size: 2.0"L x 1.6"W x 0.6"H

Part No.	Description	1	10
73461	SCSI-II terminator	$19.95	17.95

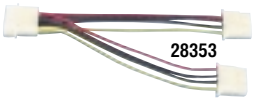
JAMECO 6" Power Supply Extension Cable Set



- Two 6", 6 conductor cables
- Use with standard IBM compatible power supplies and motherboards
- Wiring: 18 AWG, 300V rating, UL/CSA approved
- Weight: 0.1 lbs.

Part No.	Description	1	10	100
130809	Extension cable set	$3.49	$2.95	$2.49

JAMECO 3.5" and 5.25" Disk Drive Power Splitters

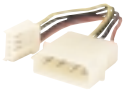


28353

- IBM PC/XT and higher compatibles
- Splits 4-line Molex male into 2 females
- Weight: 0.1 lbs.

Part No.	Drive	AWG	Length	1	10	100
28353★	5.25"	18	5" each	$2.49	$1.95	$1.49
72303	3.5"	22	5" each	2.49	1.95	1.49

JAMECO 3.5" Disk Drive Power Adapter Cable



- IBM PC/XT and higher compatibles
- Allows connection of standard 3.5" disk drives to power supplies

Part No.	Length	AWG	Wt. (lbs.)	1	10	100
28396	3.5"	22	0.02	$2.25	$1.75	$1.49

JAMECO ATX Power Supply 15" Extension Cable



- For use with ATX power supplies
- 20-pin ATX male and female connectors
- Color coded to ATX power supply code
- 15"L x 18AWG (wires) • Weight: 0.3 lbs.

Part No.	Product No.	1	10	100
170237	ATX-400-RV	$5.95	$5.35	$4.75

JAMECO SCSI Adapters



133920



134666



167370



144231



144223



129971



181032

- Weight: 0.2 lbs.
- See page 155 for SCSI type/connector guide

Part No.	Description	1	10	50
133920	50-pin ribbon header SCSI-I to DB25 female back panel port	$7.95	$6.95	$6.25
125241	50-pin ribbon header to HPDB50 SCSI-II female back panel port	12.95	11.49	10.49
134666	Centronics 50 SCSI-I male to DB25 female	7.95	7.55	6.95
134674	DB25 male to Centronics 50 female SCSI-I	9.95	8.95	6.95
145293	DB25 male to HPDB50 female SCSI-II	14.95	13.49	11.95
167370	DB25 female to HPDB50 male SCSI-II	12.95	11.49	9.95
144231	Centronics 50 male SCSI-I to HPDB50 female SCSI-II	14.95	13.49	11.95
144223	HPDB50 male SCSI-II to HPDB68 female SCSI-III	24.95	22.49	19.95
129971	Cent. 50 SCSI-I terminator	2.95	2.49	1.95
163424	Cent. 50 SCSI-I male to female pass thru terminator	.99	.85	.69
181032	HDB68 female SCSI-III to HDB68 female SCSI-III w/ bracket	29.95	26.95	23.95

JAMECO SCSI Cables



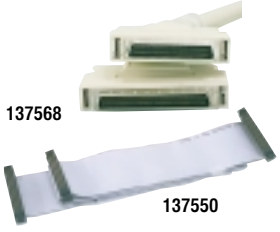
72848



73162



149358



137568

137550

- For PC/XT/AT and compatibles • All lines connected

† Also Macintosh® compatibles (See page 155 for SCSI type/connector guide)

Part No.	Description	1	10	50
72848	50-pin header socket ribbon cable † SCSI-I (24")	$3.49	$2.95	$2.49
137550	68-pin header internal ribbon cable SCSI-III (27")	17.95	15.95	14.49
180507	Male 50-pin Centronics to male DB25 (SCSI-I) 5.5'	7.95	6.95	5.95
164769	Male 50-pin Centronics to male 50-pin Centronics † SCSI-I to SCSI-I (3')	4.95	4.49	3.95
73162	Male 50-pin Centronics to male 50-pin Centronics † SCSI-I to SCSI-I (6')	7.95	6.95	5.95
118084	Male 50-pin Centronics to male HPDB50 cable SCSI-I to SCSI-II (6')	19.95	17.95	15.95
118914	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (3')	14.95	13.49	11.95
118076	Male HPDB50 to male HPDB50 SCSI-II to SCSI-II (6')	17.95	15.95	14.49
149358	Male Cent. mini 68-pin to male Cent. mini 68-pin SCSI-III to SCSI-III (5')	8.95	7.95	6.95
137576	Male HPDB68-pin to male 50-pin Centronics SCSI-III to SCSI-I (3')	19.95	17.95	15.95
137568	Male HPDB68-pin to male HPDB50-pin SCSI-III to SCSI-II (3')	19.95	17.95	15.95
137226	Male HPDB68-pin to male HPDB68-pin SCSI-III to SCSI-III (3')	19.95	17.95	15.95

JAMECO Tri-Port Serial Adapter



- Great for remote monitoring of RS232 signals
- Connectors: one DB25 female, one DB25 male and one DE9 male
- Gold plated contacts • Wt.: 0.1 lbs.
- Materials: connector shells are metal

Part No.	Description	1	10	100
105195	Tri-port serial adapter	$7.95	$6.95	$6.25

JAMECO RS232 Interface Check Tester



Check tester identifies simple interface problems which you can repair yourself. Targets the status of lines 2, 3, 4, 5, 6, 8, 11, 19 and 20. Connectors: male to female DB25 • Wt.: 0.1 lbs.

Part No.	Description	1	10	100
14285	Check tester	$7.95	$6.95	$6.25

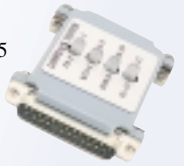
JAMECO RS232 Mini Tester



Tests any RS232 (DB25) interface and helps to identify equipment that has failed. Seven bi-color LEDs indicate the status of TD, RD, RTS, CTS, DSR, CD and DTR. LEDs indicate positive (red) and negative (green). No extra power is required. Connectors: male to female DB25. • Wt.: 0.1 lbs.

Part No.	Description	1	10	100
26729	Mini tester	$7.95	$6.95	$6.25

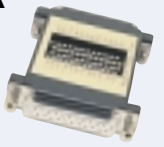
JAMECO RS232 Loopback Tester



Use for diagnostic testing of RS232 circuits. 4 LEDs monitor lines 2 to 3, 4 to 5, 6 to 20 and 15 to 17. The tester acts as a data verifier by sending data back to the transmission device. Connectors: male to female DB25. • Weight: 0.1 lbs.

Part No.	Description	1	10	100
22728	Loopback tester	$6.95	$6.25	$5.59

JAMECO Miniature RS232 Breakout Box



Design new interfaces or modify old ones quickly and easily. Completely self-contained, these boxes include (25) 22 AWG wire jumpers and machine tool sockets. Connectors: male to female DB25. • Weight: 0.1 lbs.

Part No.	Description	1	10	100
11181	Breakout box	$7.95	$6.95	$6.25

JAMECO Multilink RS232 Tester and Breakout Box



Visually indicates the status of lines 2, 3, 4, 5, 6, 8, 20 and 22 on the DTE and DCE sides. Provides signal status at a glance. Complete cable "breakout" and reconfiguration. Includes handy carrying case, 10 jumper wires and a device wiring chart. Connectors: (1) male DB25 and (1) female DB25.

- Cable length: 4"
- Size: 3.5"L x 3.3"W x 1.0"H • Weight: 0.3 lbs.

Part No.	Description	1	10	25
25945★	Tester/breakout box	$22.95	$19.95	$17.95

JAMECO D-Sub 9-Pin to 25-Pin Serial Adapters





- Weight: 0.1 lbs.

10305: For use in AT or other computer systems that have 9-pin D-sub serial ports.
153576/10321/163740: For PC/XT systems with DB25 serial ports.
154683: 4-40 x .24" hex nut (4)
139985: Gold plated contacts, extra long thumbscrews

Part No.	Description	1	10	100
10305★	DE9 F to DB25 M	$2.95	$2.49	$1.95
163740	DE9 M to DB25 F, thumbscrews on DE9 side only	1.95	1.75	1.49
153576	DE9 M to DB25 F, thumbscrews on DB25 side only	2.95	2.49	1.75
10321★	DE9 M to DB25 F	3.95	3.25	2.75
154683	DE9 F to DB25 F (4/40 nuts)	3.49	2.95	1.49
139985	DE9 F to DB25 F (thumb)	3.49	3.15	2.95

JAMECO Full Handshaking Null Modem Adapters



Self-contained null-modem (cross-over) adapters. Change any standard straight cable into a null cable quickly and easily.

- Weight: 0.1 lbs.

Internal pin configuration:
26260/17224: 1-1, 2-3, 3-2, 4-5, 5-4, 6-20, 20-6, 7-7, 8-20
26243: 1-1, 2-3, 3-2, 4-8, 8-4, 5-8, 8-5, 6-20, 20-6, 7-7

Part No.	Description	1	10	100
26260	DB25 M to DB25 M	$3.49	$2.95	$2.49
26243	DB25 M to DB25 F	3.95	3.49	2.95
17224	DB25 F to DB25 F	3.95	3.49	2.95

JAMECO PS/2 Port to AT Compatible Serial Mouse Adapters



PS/2 and compatibles. Allows you to use an AT compatible D-sub 9-pin serial mouse with a PS/2 computer. Male D-sub 9-pin to male mini DIN 6-pin connector. Two retaining screws/nuts.



- Color: beige
- Size: 1.6"L x 1.3"W
- Weight: 0.1 lbs.

Part No.	Description	1	10	100
152901	Serial mouse adapter w/ threaded spacer	$2.95	$1.95	$1.49
100335	Serial mouse adapter w/ thumbscrew	3.95	3.49	2.95
180523	Serial mouse cable adapter (1 ft.)	4.95	4.49	3.95

JAMECO VGA Adapter



- Adapts 15-pin VGA to 9-pin output
- Male DA15 to female DE9 adapter
- Weight: 0.1 lbs.

Part No.	Description	1	10	100
75264	VGA adapter	$3.95	$3.49	$2.95

JAMECO Cable Adapters

37-pin Straight Through



- Molded 37-pin connectors
- Color: gray
- Length: 6'
- Weight: 0.9 lbs.

Part No.	Description	1	10	25
180611	DC37 M-M	$5.95	$5.49	$4.95
181294	DC37 M-F	5.95	5.49	4.95

JAMECO Slim-Line Standard and Monitor Gender Changers

These revolutionary slim-line gender changers are only 0.69" wide, eliminating the space problems caused by standard gender changers. When plugged into your existing cable, they add only 0.44" to the cable. All metal cases.











- Captive locking screw (male)
- Captive locking nut (female)
- Grounding tangs (male)
- Weight: 0.04 lbs.

Part No.	Description	1	10	100
18497★	D-sub 9-pin male	$3.49	$2.95	$2.49
18489★	D-sub 9-pin female	3.49	2.95	2.49
56071	D-sub 15-pin male	3.49	2.95	2.49
56063	D-sub 15-pin female	3.49	2.95	1.95
119319	D-sub 15-pin female HD	3.49	2.95	2.49
119301	D-sub 15-pin male HD	3.49	2.95	2.49
18446	D-sub 25-pin male	3.49	2.95	2.49
18420	D-sub 25-pin female	3.49	2.95	2.49
170085	D-sub 25-pin M-F	3.49	2.95	1.95
18471	D-sub 37-pin male	3.95	3.49	2.95
18462	D-sub 37-pin female	3.95	3.49	2.95
180662	Centronic 36-pin male	3.49	2.95	2.25
180654	Centronic 36-pin female	3.49	2.95	2.25

JAMECO Standard D-Sub Gender Changers



- Standard 9 and 25-pin D-sub male and female gender changers for interfacing two cables or connectors of the same gender
- Weight: 0.1 lbs.

Part No.	Description	1	10	100
16635	D-sub 9-pin male	$1.95	$1.75	$1.49
16643	D-sub 9-pin female	1.95	1.75	1.49
181139	HDB15 female	1.95	1.75	1.49
22058	D-sub 25-pin male	1.95	1.75	1.49
154691	D-sub 25-pin female (with 4/40 nuts)	1.49	1.25	.99
22074	D-sub 25-pin female	1.75	1.55	1.25
180671	Centronics 36-pin male	2.95	2.49	1.75

JAMECO Keyboard Adapters



159089: AT keyboard adapter
- Connects PS/2 keyboard to AT
- 6-pin female mini DIN to 5-pin male DIN

159097/157930: PS/2 keyboard adapter
- Connects AT type keyboards to the PS/2
- 5-pin female DIN to 6-pin male mini DIN (PS/2)

Part No.	Length	Housing	Wt. (lbs.)	1	10	25
159089	1.6"	Metal	.02	$2.95	$2.49	$1.95
159097	1.4"	Metal	.02	2.95	2.49	1.95
157930	1.7"	Plastic/metal	.04	2.95	2.49	1.95

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5

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Credit Memo (please attach)	(-)
TOTAL	

7 JAMECO® thanks you for Your Order!

Please see page 178 for more service information

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- International Sales (international@jameco.com)
- Customer Service (custservice@jameco.com)
- Credit Department (credit@jameco.com)
- Technical Support (tech@jameco.com)

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Please call us at 1-800-831-4242.

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SERVICES

30-Day Money Back Guarantee

Customers wishing to return merchandise for a refund, credit and/or exchange must do so within 30 days from the date of order. Returns without an RMA# will not be accepted. Please call our customer service department at 1-800-536-4316 to request an RMA#. Returns must be shipped prepaid with the RMA# clearly visible on the outside of the box. Sorry, no freight collect packages will be accepted. A copy of the Jameco customer service form (located on the back of the packing slip) must be filled out completely and is required along with an RMA# to process your return. Books, kits, software, grab bags and special orders are not returnable. A special order consists of products not listed in the Jameco catalog or catalog listed products sold at an OEM quantity discount.

Jameco Warranty

Jameco warrants all merchandise against defects in material or workmanship for a period of 90 days from date of purchase unless otherwise stated. Longer and/or broader warranties may be provided by the manufacturer of a particular product. Defective items must be shipped prepaid. This warranty shall not apply to any item where defects have been caused by improper customer assembly, failure by customer to follow instructions, product modification, negligent or improper operation.

Limitation of Liability

Jameco's liability shall be limited to the repair or replacement of defective products in accordance with the Jameco limited warranty. Jameco shall not be liable for any incidental, special or consequential damages for breach of any warranty, expressed or implied, directly or indirectly arising out of Jameco's sale of merchandise, including any failure to deliver any merchandise, or arising out of customer's installation or use, whether proper or improper, of the product, separately or in combination with other equipment, or from any other cause. Products sold by Jameco are not authorized for use as critical components in life support devices or systems.

SHIPPING INFORMATION



2 Business Day Guaranteed Delivery Time for UPS

Orders received Mon.-Fri. by 6:00 p.m. Eastern Standard Time (3:00 p.m. Pacific) will be shipped the same day. Orders received Saturday and Sunday will ship the following Monday (except on holidays). If we are unable to fill your order on the day received, we will send you a gift certificate worth $5.00 towards your next Jameco purchase. This offer does not apply to orders waiting credit approval or back ordered items.

Options and Rates*

Shipping delivery times are based on working days.

2 Day (UPS)
Guaranteed delivery times may vary depending on zip code.
$6.00 for 1st 2 lbs.; $0.75 for each additional lb.

Next Day Air Service
- $18.00 for AM delivery for 1st 2 lbs.; $1.50 for each additional lb.
- $14.00 for afternoon delivery for 1st 2 lbs.; $1.50 for each additional lb.

Priority Mail
$4.00 for 1st 2 lbs.; $1.50 for each additional lb.

Jameco reserves the right to rebill shipping surcharges for customer misadressed packages

* The above rates apply to single box shipments that are less than 50 lbs. Please call for shipping quote on packages greater than 50 lbs.

International Shipping & Handling

Shipping is via courier or postal service, depending on your preference, insurance availability, and the size and weight of your package. Jameco will apply actual shipping charges with a nominal handling charge on all foreign orders. For mail-in customers, please include 25% for shipping charges or call for a shipping quotation. All returns that meet postal requirements must be sent prepaid via air parcel post. All courier shipments to Canada and Mexico require a certificate of origin. Jameco will provide a certificate of origin for a $25 processing fee.

POLICIES

Confirming Orders

Please do not send confirming orders. If company policy necessitates a confirming order, please mark "CONFIRMING" boldly on the first page of the order.

No Minimum Order

A $5.00 processing fee will be added to orders under $20.00. This fee is waived for orders placed on our website.

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Brand Names You Can Trust

FLUKE 1520 MEGOHMETER



- Large backlit LCD display with analog bar graph and digital display
- Auto-shut off after 15 minutes of inactivity
- Test voltages of 250V, 500V, and 1000V
- Display ranges: 4.0MΩ / 40.0MΩ/ 400.0MΩ / 4000.0MΩ
- Measurement range: 0.2MΩ to 10MΩ
- Accuracy: 2% + 2 counts (0.2MΩ to 100MΩ); 10% + 2 counts (100MΩ to 4000MΩ)
- LO-Ohms range: 40Ω (.10Ω to 40Ω) with 2% +2 count accuracy
- Analog bar graph range: 0 to 100Ω (in low ohms setting)
- Measures AC/DC voltage up to 600V with 2% +2 count accuracy • Last reading memory
- 5,000 readings on 4 "C" cell batteries
- Auto discharge of stray voltages before and after tests
- Includes 4 "C" cell batteries; (2) each of test probes, alligator clips, and test leads; manual, strap and carrying case
- Size: 14.0"L x 4.4"W x 8.5"H • Weight: 3.8 lbs.

Part No.	Model No.	1	5
182908	Fluke 1520	$648.95	$618.95

FLUKE 189 Multimeter w/ Data Logging



- Digital and analog bar graph display
- Backlight with 2 brightness levels
- Fast auto range • AC/DC true rms
- AC voltage range: 50mV to 3000mV (.001mV to 0.1mV res.); 5V to 1000V (.0001CV to .01V res.)
- AC current range: 500uA to 5uA (.01uA to .1uA res.); 50mA to 400mA (.001mA to .01mA res.); 5A to 10A (.0001A to .001A res.)
- DC voltage range: 50mV to 3000mV (.001mV to .1mV resolution); 5V to 1000V (.0001V to .1V resolution)
- DC current range: 500uA to 5uA (.01uA to .1uA resolution); 50mA to 400mA (.001mA to .01mA resolution); 5A to 10A (.0001A to .001A res.)
- Resistance: 500Ωto 500MΩ (.01Ω to .1MΩ res.)
- Capacitance: 1nF to 50mF (.001nF to .01mF res.)
- Freq.: 500Hz to 999.99KHz (.01Hz to .01KHz res.)
- Temperature: -200˚C (-328˚F) to 1350˚C (2462˚F)
- Conductance, diode testing, continuity function capable
- Data logging: 288 intervals can be stored
- Can save up to 100 readings
- Size: 8.0"L x 3.9"W x 2.0"Thick • Weight: 2.0 lbs.

See page 133 for more FLUKE® products

Part No.	Model No.	1	5
182043	Fluke® 189 multimeter with data logging	$398.95	$378.95

FLUKE 1AC-A VoltAlert™ Meter



The VoltAlert™ AC voltage tester is easy to use – just touch the tip to a control wire, conductor or outlet. When it glows red, you know there's voltage in the line. Electricians, maintenance, service, safety personnel and home owners can quickly test for energized circuits and defective grounds on the factory floor, in the shop or at home. For detecting line voltage from 90VAC to 600VAC.

- Fits in a shirt pocket for convenience
- All outer surfaces are nonconductive for safety
- Detects voltage without metallic contact
- Size: 5.9"L x 0.6"Dia. • Weight: 0.1 lbs.
- One-year manufacturer's warranty

Part No.	Model No.	Description	1	10
164380	FLK-1AC-A1	VoltAlert™	$20.95	$17.95

FLUKE 199R Scopemeter



- LCD with CCFL backlight (240 pixels x 240 pixels)
- Bandwidth: 200MHz with 1.7ns rise time
- Max. real time sample rate: 2.5GS/s
- Inputs and digitizers: 2 plus external trigger/ DMM input
- Refurbished
- Independently floating isolated inputs: up to 1000V between inputs, references, and ground • Refurbished
- Time base range: 5ns/div to 2min./div
- Input sensitivity: 5mV/div to 100V/div.
- Maximum record length: 27,500 pts./input in ScopeRecord mode; 1,000pts/in out in scope mode
- Glitch capture: 50nsec (5usec/div to 1min./div)
- Scope measurements: 7 cursor + 24 automatic
- True RMS multimeter: 5000 counts, single input
- Size: 10.1"Lx 6.6"W x 2.5"H • Weight 4.3 lbs.

Part No.	Product No.	Desc.	1	5
182019	FLK199R	Refurb.	$1999.95	$1849.95

FLUKE 73-3 Analog / Digital Multimeter



- Cat II 600V rating with over voltage protection
- Automatic touch hold
- 3200 count digital display with analog bar graph
- Default auto range mode
- AC voltage range: 40mV to 1000V (2% +2 digits accuracy)
- DC voltage range: 40mV to 600V (0.3% +2 digits accuracy)
- AC current range: 4mA to 10A (2.5% + 2 digits accuracy)
- DC current range: 4mA to 10A (1.5% + 2 digits accuracy)
- Resistance: 400Ω to 32MΩ(0.5% + 1 digit accuracy)
- Diode and continuity test
- Size: 6.6"L x 3.0"W x 1.1"H • Weight: 0.8 lbs.

Part No.	Model No.	1	5
182035	Fluke 73-3	$134.95	$129.95

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